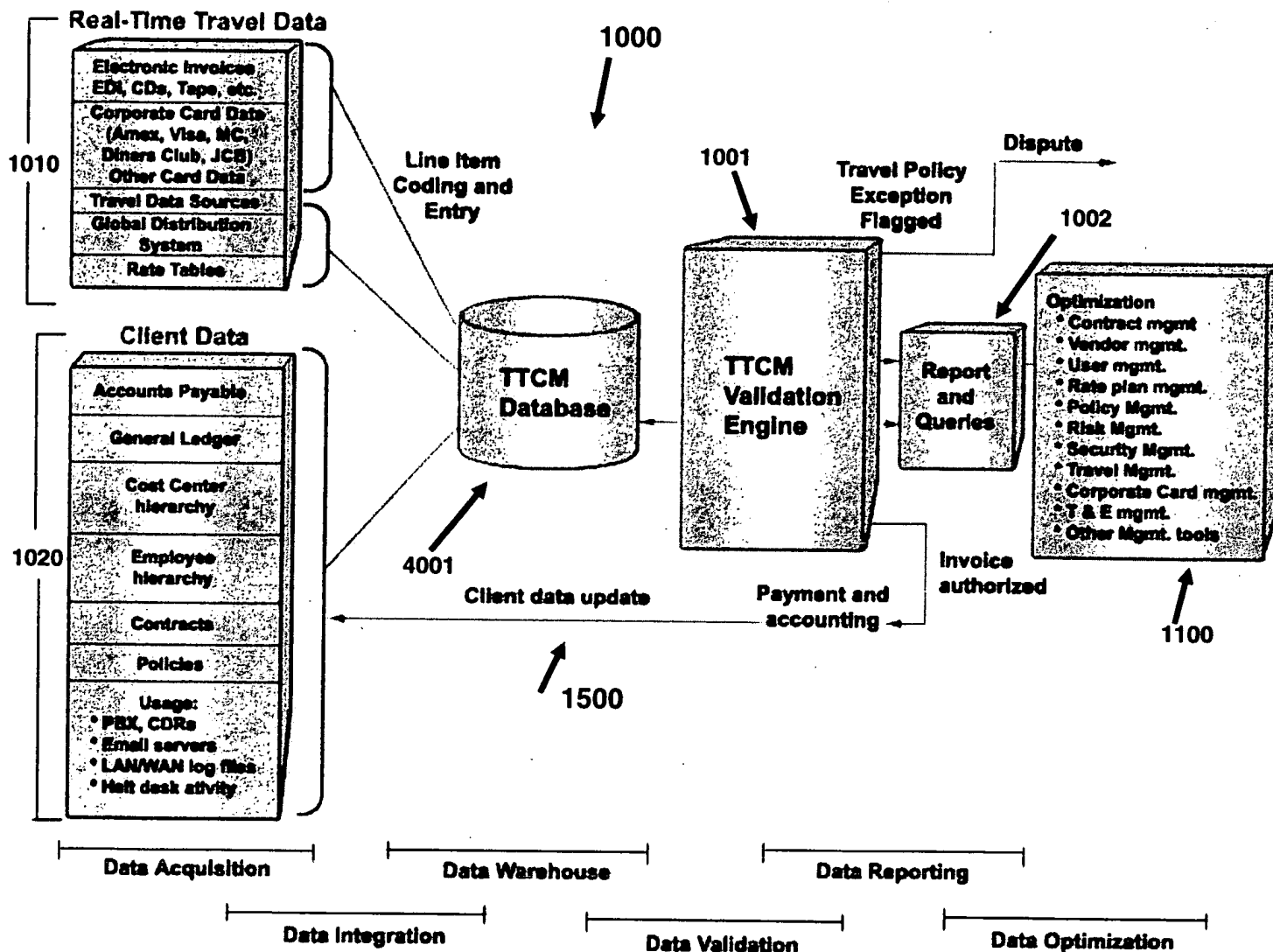
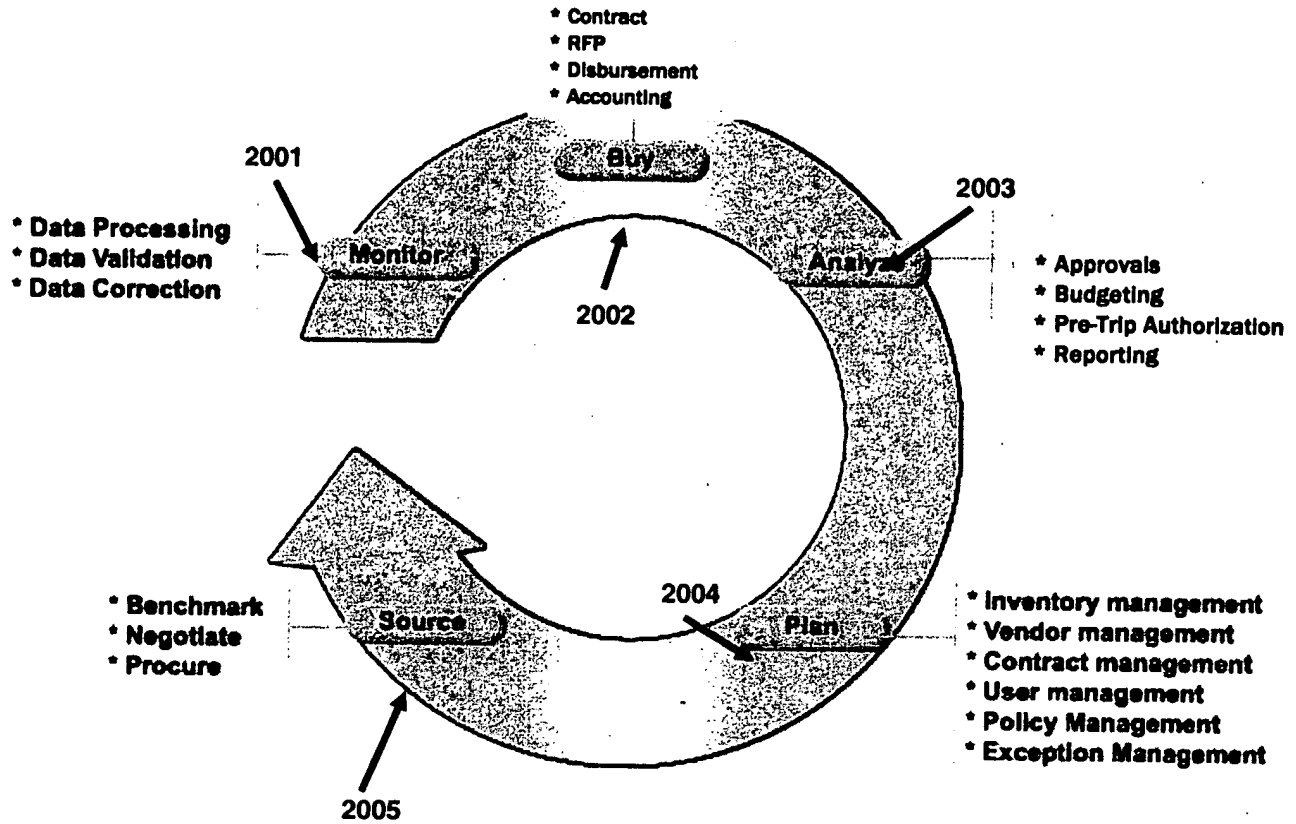


**Figure 1: How Total Travel Cost Management (TTCM) Works**



**Figure2: Total Travel Cost Management (TTCM) Service Lifecycle**



3/44

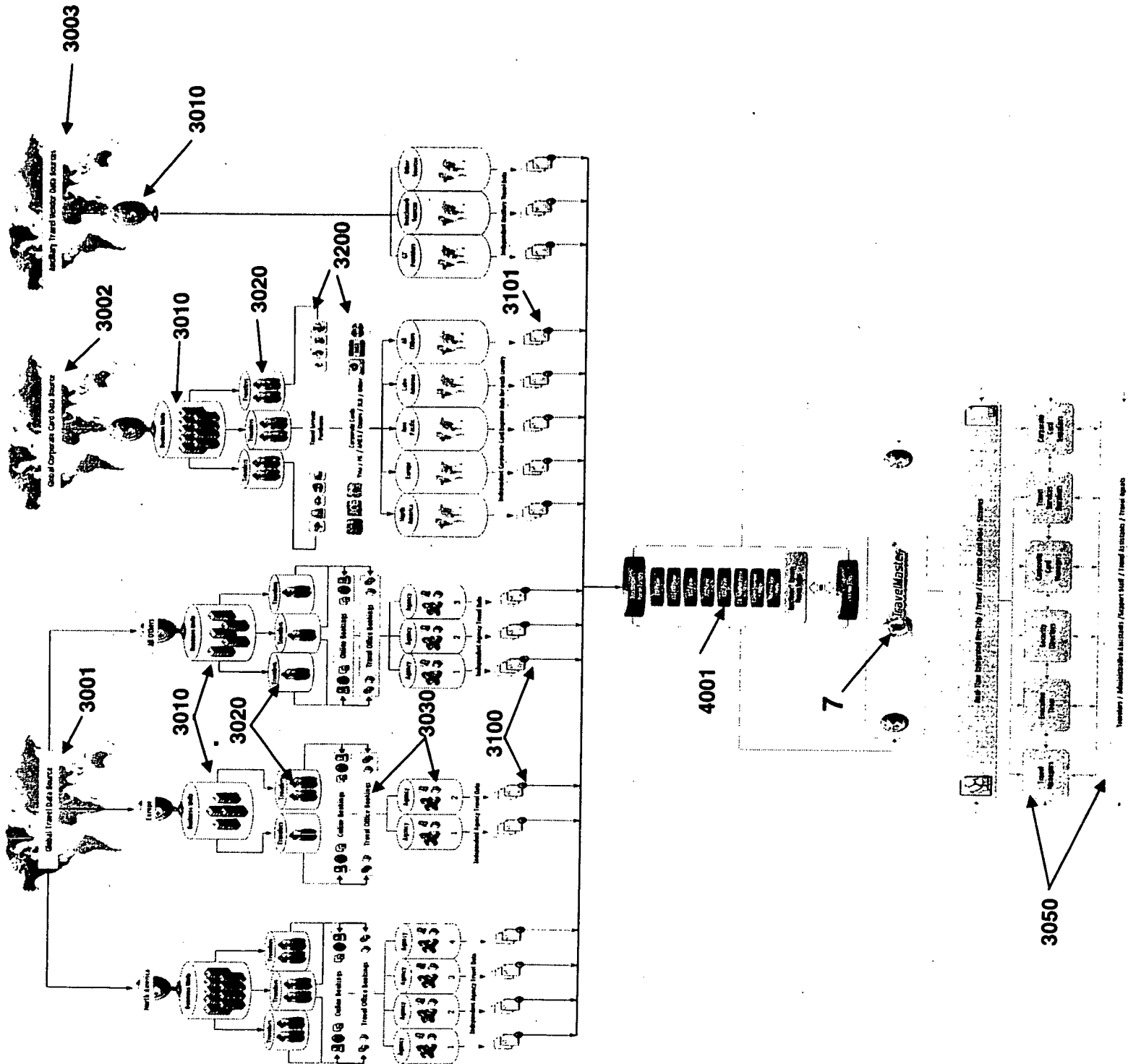


Figure 4

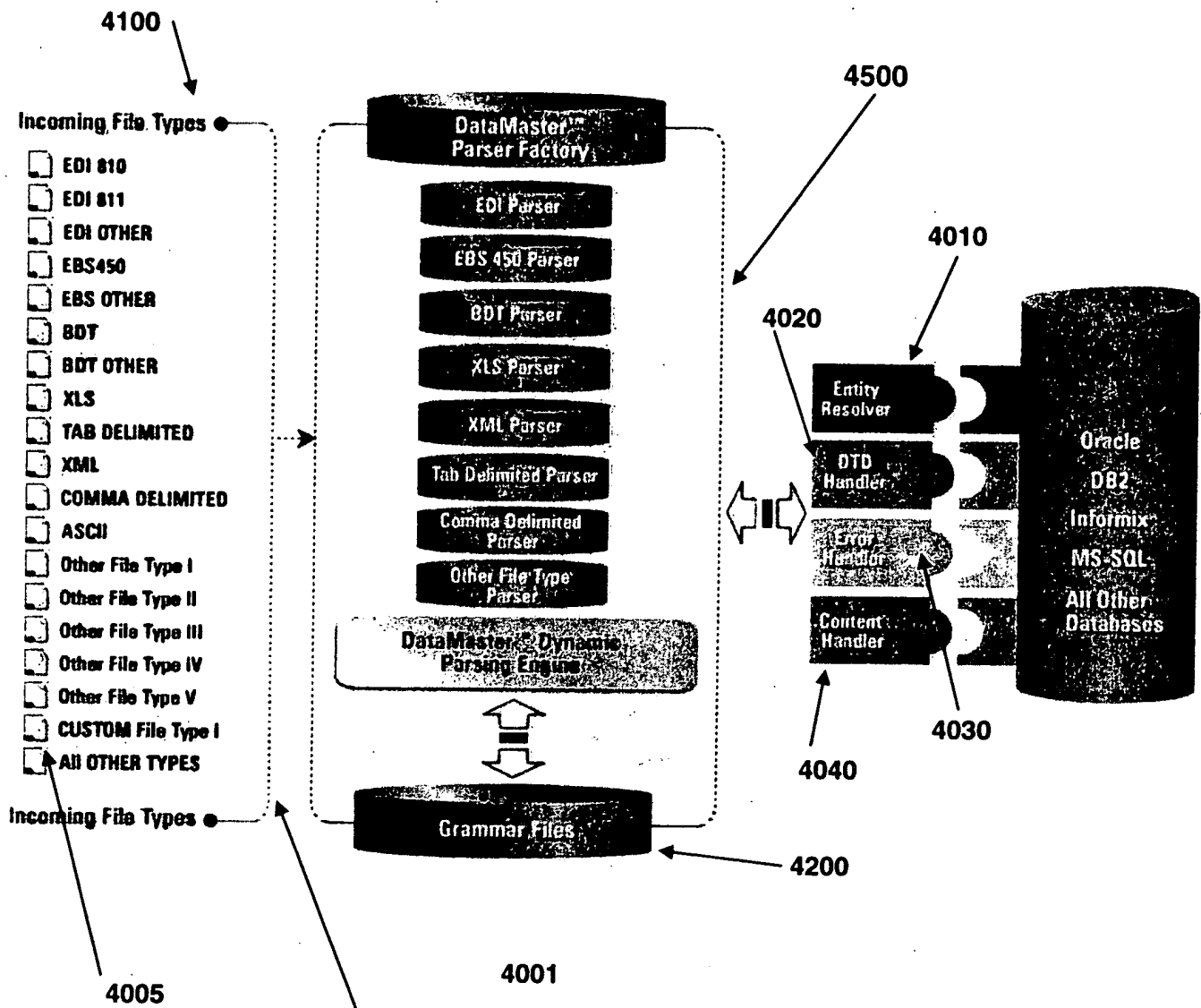
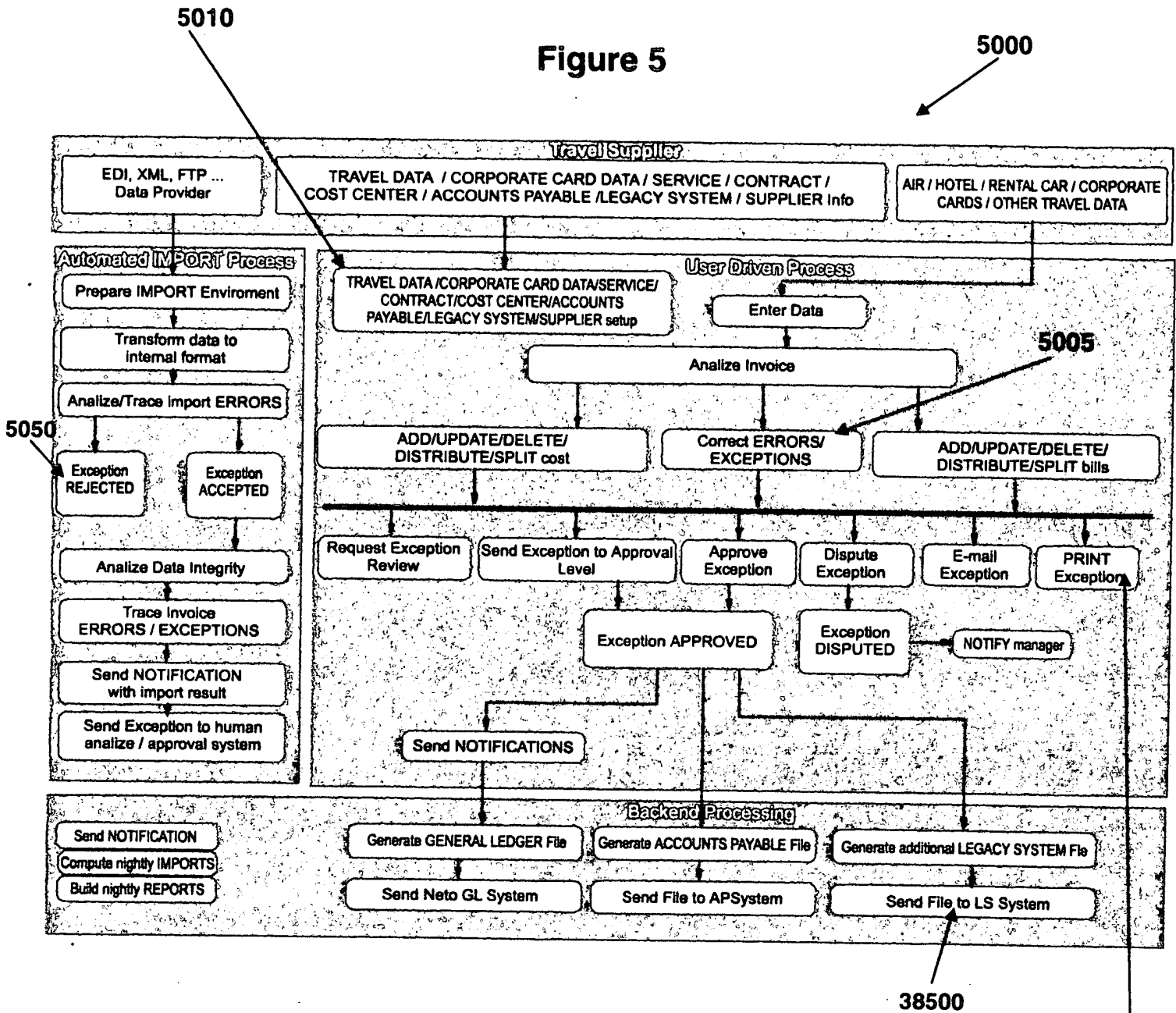
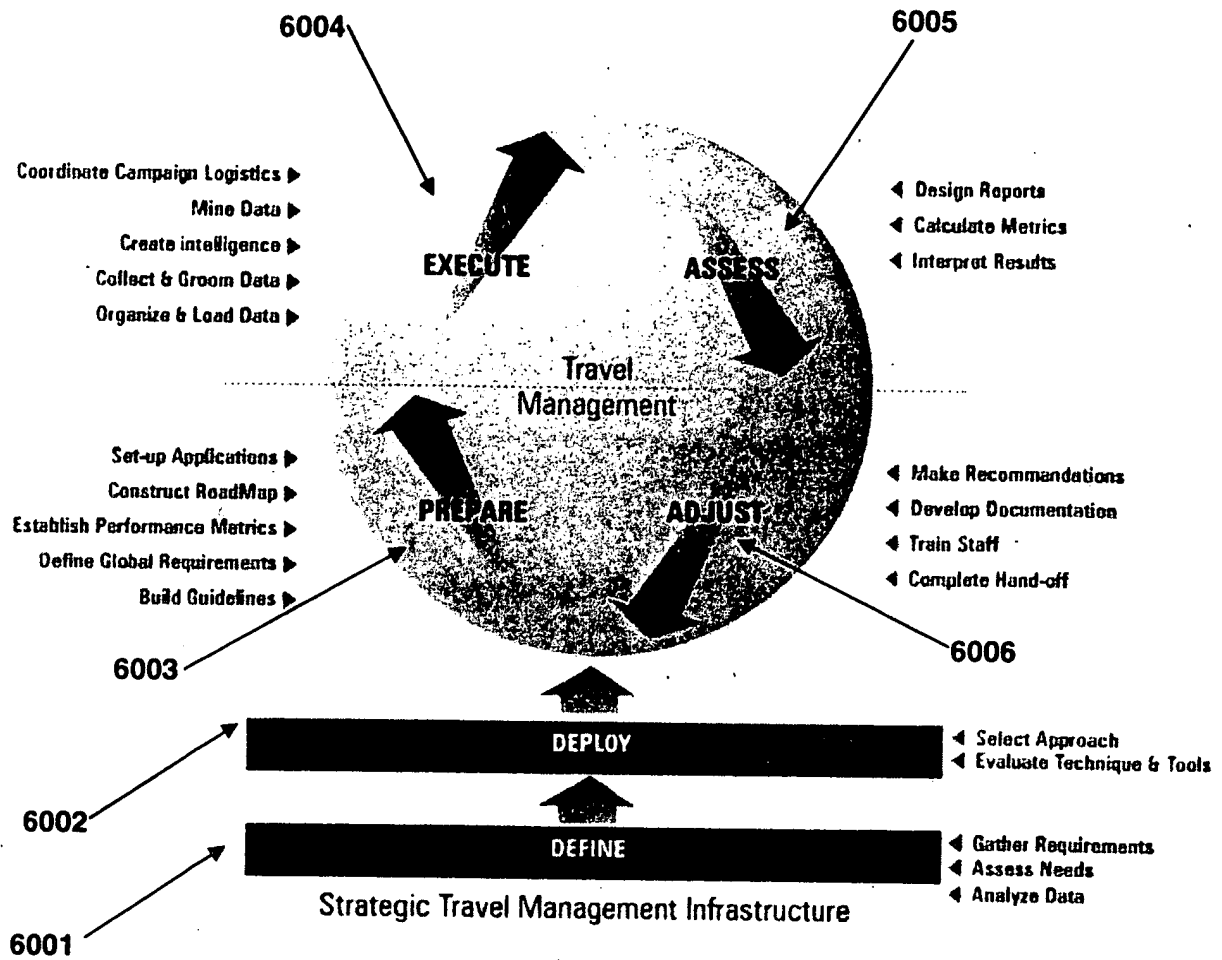


Figure 5

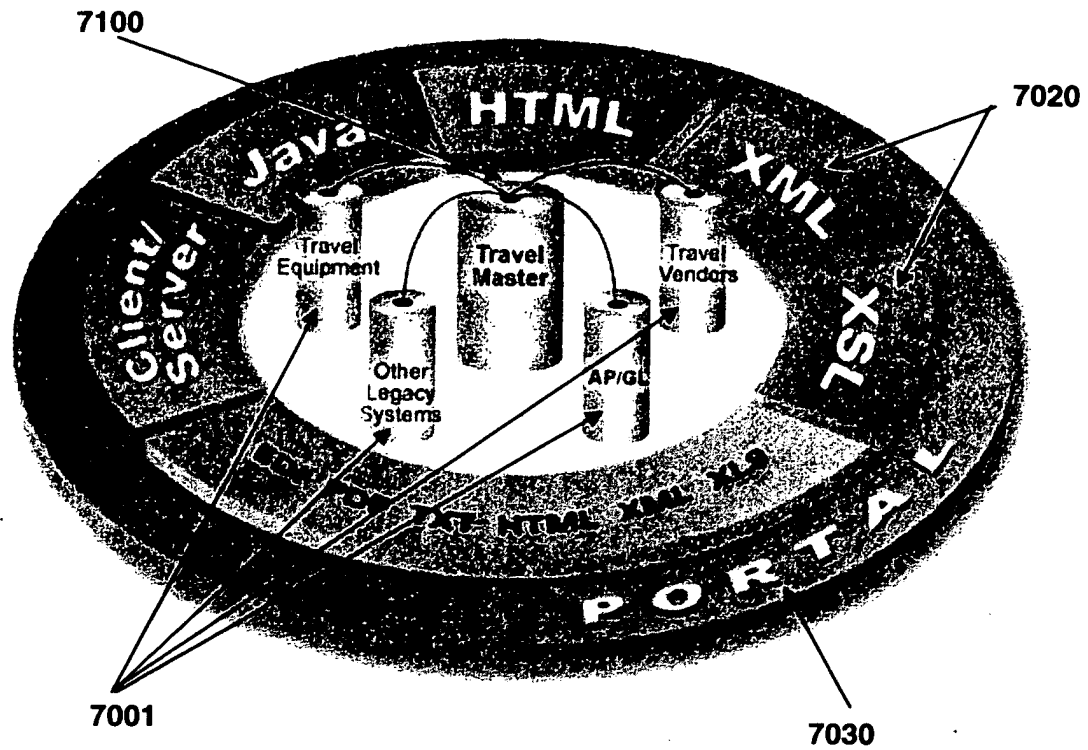


**Figure 6**

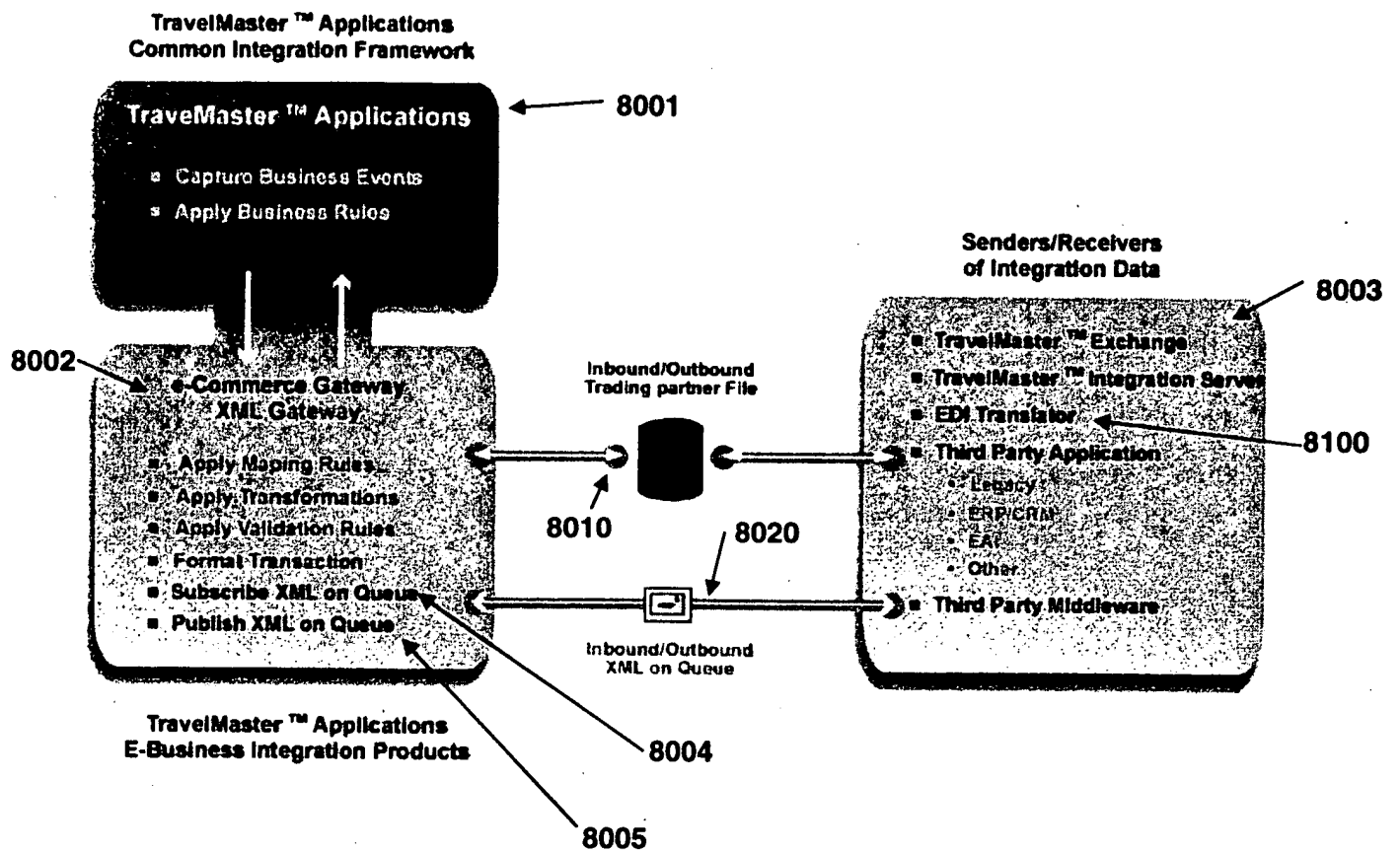


**Figure 7**

**Open Application Architecture**



# FIGURE 8





**FIGURE 9**

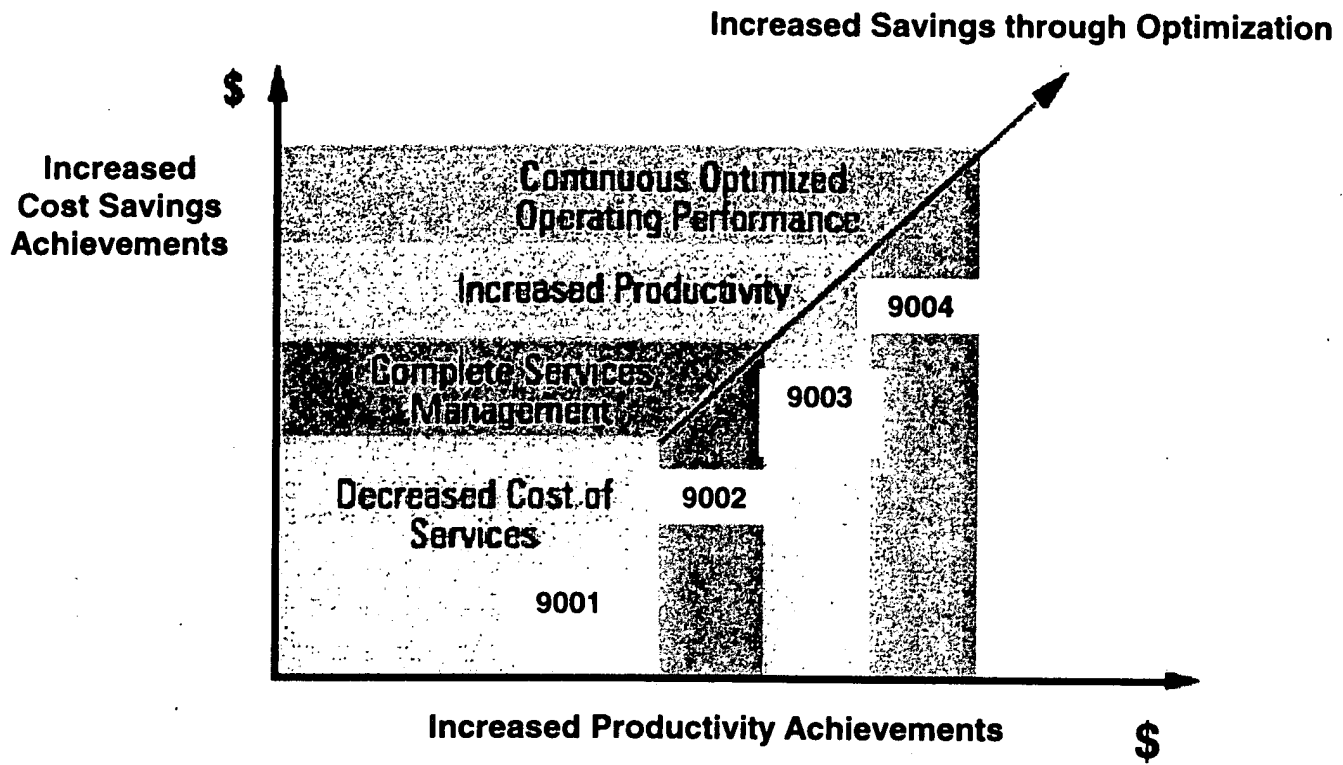


FIGURE 10

**TravelMaster™**

**Announcing TravelMaster™ I**

The first real-time, comprehensive travel program management solution which completely integrates your card and travel data in ways you never imagined. Take control of your travel program TODAY!

- 1) Fully Integrated Real-Time Card and Travel Data
- 2) Global Travel Data Consolidation
- 3) Real-Time Card & Expense Control Management
- 4) Real-Time Travel Policy Enforcement
- 5) Real-Time Travel Expense Reporting
- 6) Real-Time Travel Policy Enforcement
- 7) Real-Time Travel Policy Enforcement
- 8) Real-Time Travel Policy Enforcement
- 9) Real-Time Travel Policy Enforcement
- 10) Real-Time Travel Policy Enforcement

**TravelMaster™ Administrator**

- Travel Managers
- Corporate Card Managers
- Security Directors
- Executives
- Program/Project Travel Budget Estimator
- Travelers
- Travel Supplier Customer Service Issues Management
- Admin/Travel Assistants
- TravelMessenger™
- Expense Reporting

10001

FIGURE 11

TravelMaster - Microsoft Internet Explorer

Victoria Wofford (Travel Manager)

TravelMaster

MEETINGS AND ACTION ITEMS TRAVEL MANAGEMENT PRE-TRIP APPROVALS EXPENSE REPORTS ROUTE EXCEPTIONS REPORTS

11004

Meetings & Action Items - All Services

Today

4:30 PM - 4:45 PM United Airlines - Meeting related to February contracts  
4:30 PM - 4:45 PM AMEX - Review of agreement

Travel Expense Summary

Category	Total Spend Current Month	Total Spend YTD	Savings YTD	Average
Total Travel Spend	\$3,150,426.00	\$7,009,450.00	\$1,623,068.00	\$1,461,073.00
Airfare	\$1,441,017.00	\$3,626,237.00	\$1,600,740.00	\$1,025,497.00
Exchanges/Refunds	\$5,113.00	\$10,140.00		
Hotels	\$110,512.00	\$220,143.00	\$41,060.00	\$110,512.00
Rental Car	\$25,447.00	\$49,847.00	\$9,420.00	\$25,447.00

Approvals Pending

Category	Count
Policy Exceptions	22
Travel Requests	124
High Risk Travel	12
Corporate Card Applications	7
Expense Reports	20
Reimburse Errors	10

Pending Travel / Travel In Progress (Real-time Booked vs Actual)

Trips Booked And/Or In Progress - (As of April 23, 2003)

View Summary

Record Locator	Passenger	Departure Date	Outgoing	View Full Itinerary	Return Date	Airline	Hotel	Rental Car	Ticket/Airline Changes	Hotel Utilized	Rental Car Utilized
AOLUCO	BELLARD, THOMAS E	22-Jan-03	BOSLAX/BOS	BOSLAX/BOS	24-Jan-03	UNITED	HOLIDAY INN	HERTZ	NONE	SAN FRANCISCO	AVIS

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11000

11002

11003

11001

FIGURE 12

TravelMaster Microsoft Internet Explorer

Victoria Wolford (Travel Manager)

MANAGEMENT CORPORATION

TRAVELMASTER

LOGOUT | SETTINGS AND ACTION MENU | TRAVEL MANAGEMENT | MY TRIP | APPROVALS | MY TRIP | APPROVALS | REPORTS

Settings

Pending Travel / Travel in Progress (Real-time Booked vs Actual)

**Trips Booked And/Or In Progress - (As of April 23, 2003)**

View Summary

Record Locator	Passenger Name	Outbound Date	Routing	View Full Itinerary	Return Date	Airline	Hotel	Rental Car	Ticket/Airline Changes	Hotel Utilized	Rental Car Utilized
HOLDDG	DILLARD, THOMAS E	22-Jan-03	BOS/LAX/BOS	BOS/LAX/BOS	24-Jan-03	UNITED (Preferred)	HARRITT LAX - (110) 317-0258 (Preferred)	HERTZ (Preferred)	NONE	HOLIDAY INN SAN FRANCISCO (Preferred)	AVIS (Preferred)
FOJAGL	MULLER, MIKE S	20-Jan-03	BOS-SFO/BOS	BOS/LAX/BOS	23-Jan-03	UNITED (Preferred)	HOLIDAY INN SAN FRANCISCO - (650) 673-4524 (Preferred)	HERTZ (Preferred)	NONE	HARRITT LAX AIRPORT (Preferred)	NO CHANGE
STLWAR	DREW, KAREN	20-Jan-03	BWI/TPA/BWI	BWI/TPA/BWI	29-Jan-03	American	AMERICAN AIRPORT - (813) 282-1148 (Preferred)	HERTZ (Preferred)	NONE	NO CHANGE	AVIS (Preferred)
ENHOMF	KOLEY, DAVID A	05-Feb-03	CVG/DCA/CVG	CVG/DCA/CVG	14-Feb-03	Northeast	HOTEL HELLER - (302) 333-3519 (Preferred)	HERTZ (Preferred)	NONE	RANSSON HOTEL BOSTON (Preferred)	NO CHANGE
EDPLPA	SMITH, DEANINA S	15-Jan-03	DCA/HSY/DCA	DCA/HSY/DCA	16-Jan-03	UNITED (Preferred)	HOLIDAY INN HUNTSVILLE - (256) 494-0782 (Preferred)	HERTZ (Preferred)	NONE	NO CHANGE	HERTZ (Preferred)
ODJHNY	HARRETT, HAROLD W	15-Jan-03	ORF/DCA/OFW	ORF/DCA/OFW	16-Jan-03	UNITED (Preferred)	CROWNE PLAZA WASHINGTON - (202) 523-9025 (Preferred)	HERTZ (Preferred)	AMERICAN AIRLINES (Plan Preferred)	ELTON FRANKFURT (Preferred)	HERTZ (Preferred)

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Done

My Computer

Travel Menu

- Airlines
- Hotels
- Rental Car
- Ground Transportation
- Rail
- Meals
- Entertainment
- Meetings & Events
- Telecom
- Other Expenses
- Travel Agency
- Fees/Costs
- Imports
- Policy Mgmt
- Expense Reports
- PDF Links
- Budgeting
- Visas & Passports
- CM Tools

12001

FIGURE 13

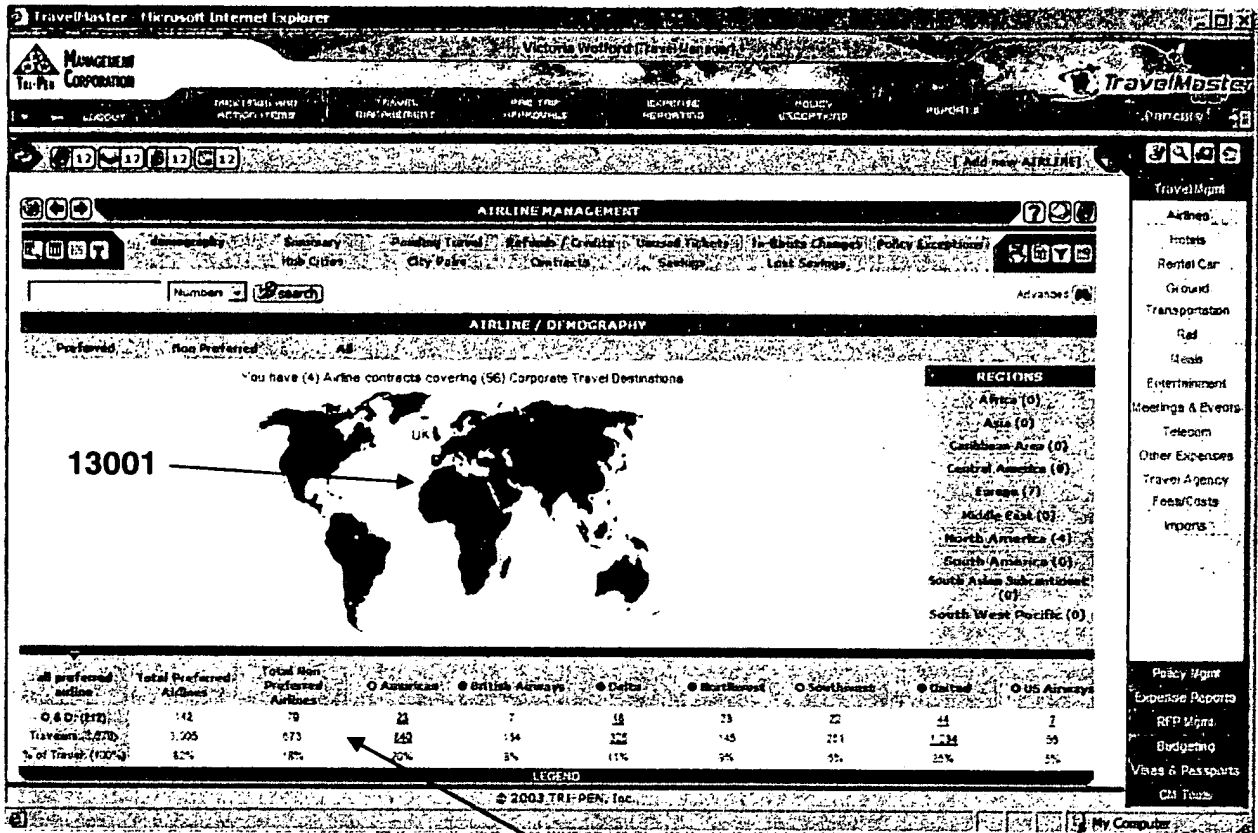


FIGURE 14

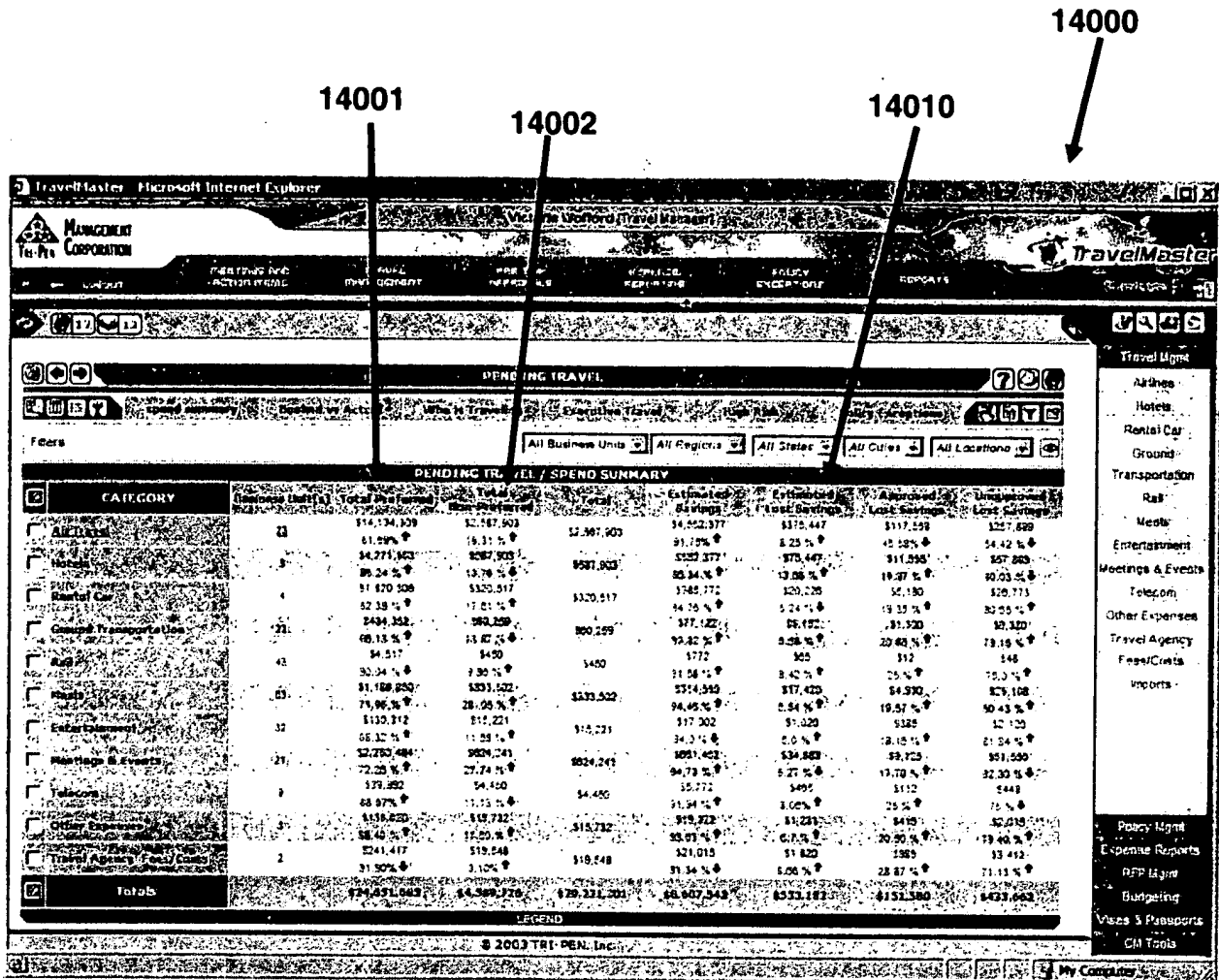


FIGURE 15

15000

15001

15005

The screenshot displays the TravelMaster web application interface. At the top, there is a navigation bar with links like 'HOME', 'ABOUT', 'CONTACT', 'FAQ', 'SUPPORT', 'LOGOUT', and 'REPORTS'. Below this is a 'POLICY EXCEPTIONS' section with a table listing travel exceptions. A modal window titled 'Airline Travel Policy Exception' is open, showing a 'REASON CODE (APE-011)' and a description: 'Description: Connection flight would make traveler late for client meeting...'. The modal also states that approval is required for this reason code.

Traveler	Destination	Airline	Traveler Date	Return Date	Days	Class	Fare Type	Lowest Logical Fare	Lowest Savings	Reason Code
Ward, Victoria	New York, NY	SEA/ADEN	Fri, Aug 22, 2003	Mon, Aug 27, 2003	5 Days	Y	\$540.00	\$457.00	\$83.00	01
Adams, Allison R.	Las Vegas, NV	MDG/ASHAD	Mon, Sep 08, 2003	Thu, Sep 11, 2003	3 Days	Y	\$875.00	\$870.00	\$5.00	01
Wiles, Mary E.	Orlando, FL	SEA/MCOARD	Fri, Sep 12, 2003	Sat, Sep 13, 2003	1 Day	Y	\$475.00	\$345.00	\$130.00	01
<b>Totals</b>									<b>\$413.00</b>	

Reason Code (APE-011)

Description: Connection flight would make traveler late for client meeting...

Approval REQUIRED for this reason code. Any traveler giving this reason code for out of policy travel... must obtain final approval from at least (1) authorized manager...

FIGURE 16

TravelMaster - Microsoft Internet Explorer

MANAGEMENT CORPORATION Victoria Wolford (Travel Manager)

TravelMaster

EXPENSE REPORT MANAGEMENT

Summary Pending Overdue Declined Paid Other of Record/Travel

Filters All Business Units All Regions All States All Cities All Cards

Report Categories	Total Travels	Total Overdue Reporting	Employees Reporting	Total Reports	Total Expenses	Total Company Expenses
<input checked="" type="checkbox"/> All	2,345	70	743	2,130	\$14,345,770	\$14,141,447
<input type="checkbox"/> Airfare	715	12	122	579	\$1,980,327	\$192,099
<input type="checkbox"/> Other	200	5	29	224	\$300,029	\$128,120
<input type="checkbox"/> Personal Auto	415	17	137	412	\$1,485,000	\$425,003
<input type="checkbox"/> Rental Car	328	14	101	303	\$2,308,129	\$458,793
<input type="checkbox"/> Taxi/Uber/Car Service	429	9	100	101	\$980,220	\$112,229
<input type="checkbox"/> Train + Rail	188	22	132	173	\$1,352,124	\$149,020
<input checked="" type="checkbox"/> Lodging	1,032	229	693	2,440	\$4,883,034	\$740,129
<input type="checkbox"/> Hotel	1,032	229	693	2,440	\$4,883,034	\$740,129
<input checked="" type="checkbox"/> Meals	10,170	572	602	7,093	\$3,218,993	\$510,347
<input type="checkbox"/> Breakfast (Alone)	506	104	432	1,033	\$1,337,708	\$110,300
<input type="checkbox"/> Breakfast (Alone)	52	98	75	190	\$215,326	\$32,000
<input type="checkbox"/> Dinner (Alone)	231	120	108	328	\$683,270	\$90,028
<input type="checkbox"/> Lunch (Alone)	200	134	105	296	\$467,231	\$72,110
<input type="checkbox"/> Snacks/Other (Alone)	47	96	79	202	\$130,384	\$9,817

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My Computer

16001



FIGURE 17

TravelMaster Microsoft Internet Explorer

MANAGEMENT CORPORATION

TravelMaster

EXPENSE REPORT MANAGEMENT

Summary Approval Status

Filter: All Business Units All Regions All States All Cities All Cards

EXPENSE REPORT DETAILS / CALENDAR / OCT 2003

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	TOTAL
					\$124.90 (tax) \$12.34 (tax)		
			\$1,758.00 (tax) \$224.00 (tax) \$15.88 \$350.00 (tax)	\$1,250.00 (tax) \$215.00 (tax) \$15.88 \$655.00 (tax) \$1,700.00 (tax)	\$1,224.90 (tax) \$12.34 (tax) \$15.88 (tax)	\$1,258.00 (tax) \$225.00 (tax) \$15.88 \$250.00 (tax) \$350.00 (tax)	
\$1,224.90 (tax) \$224.00 (tax) \$15.88 \$250.00 (tax) \$167.00 (tax) \$25.00 (tax)		\$124.90 (tax) \$12.34 \$15.88 \$10.40 (tax) \$22.34 (tax) \$35.70 (tax)	Today				

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Done

17001

17005

FIGURE 18

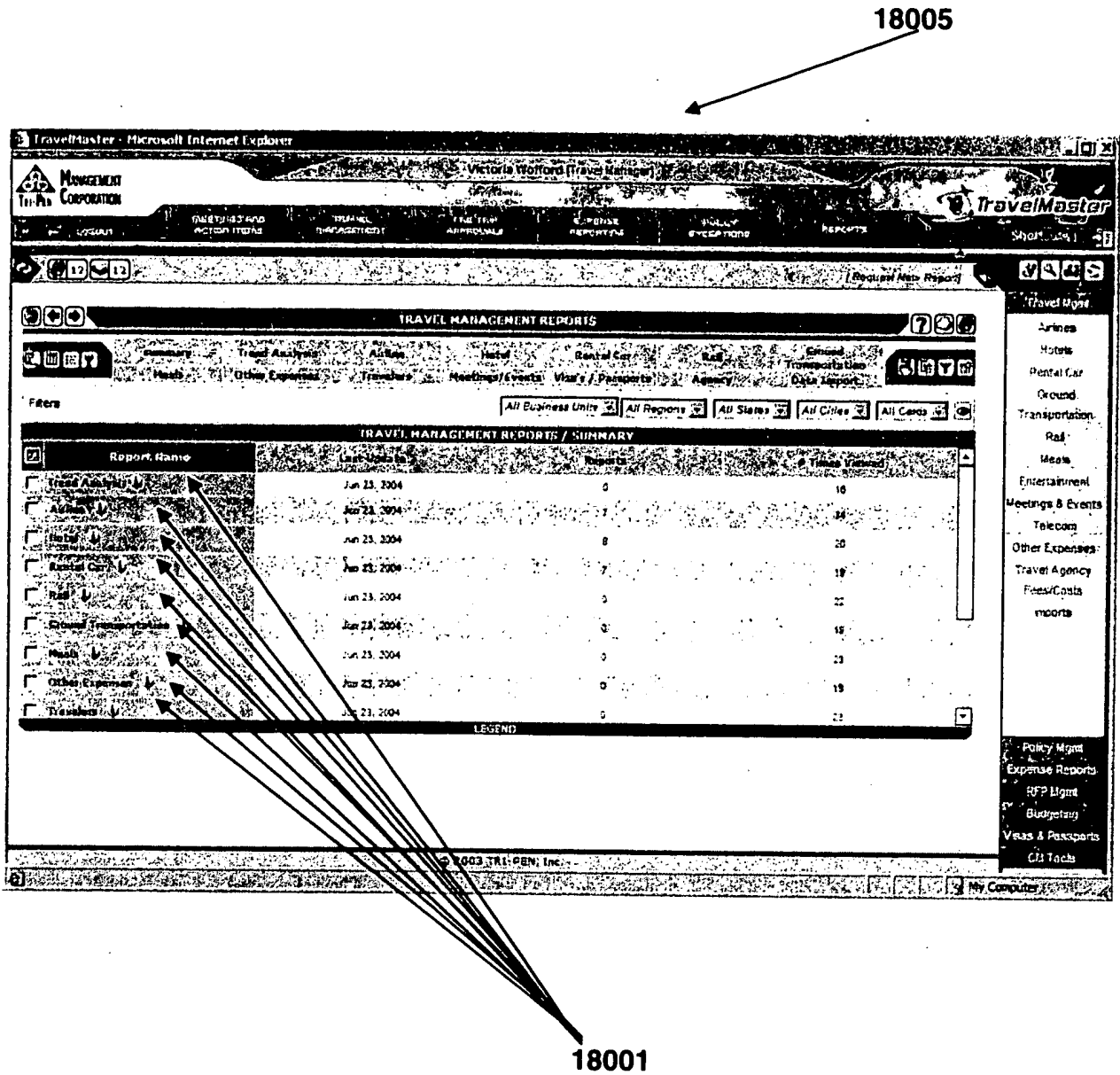


FIGURE 19

19000

TravelMaster Microsoft Internet Explorer

Management Corporation

Anthony Smith (Manager)

CORPORATE CARD MANAGER

TRAVELMASTER

LOGOUT

TRAVELMASTER AND ACTIVITY FEEDBACK

CARD MANAGEMENT

WHO HAS CARDS

REPORTING CARD HOLDERS

REPORTING TRAVEL TRAVEL IT PROBLEMS

REPORTS

Corporate Card

Usage Summary

Corporate Cards

Meeting Cards

Declining Balance Cards

Guaranteed Cards

Central Billing Accounts

Policy Mgmt

Expense Reports

CLI Tools

CORPORATE CARD / SUMMARY / BY TYPE

Summary Pending Travel Policy Exceptions Pending Cards Corporate Suspended Deactivated Deleted

Filters All Business Units All Regions All States All Cities All Currencies

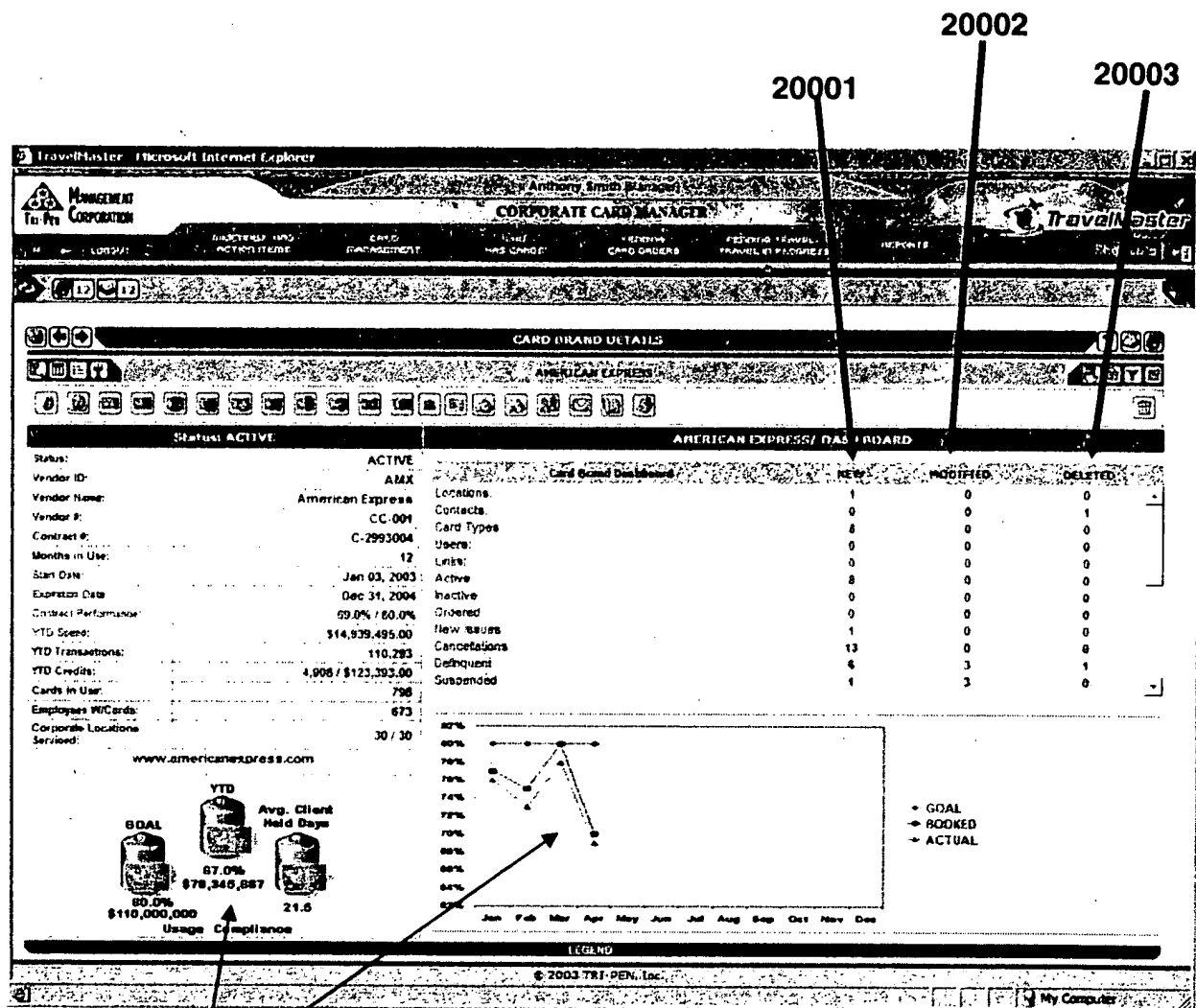
Card Brands	Unissued Corp Cards	Meeting Cards	Declining Balance Cards	Guaranteed Cards
AMERICAN EXPRESS	1,073	55	1,118	555
Diners Club (Citi Bank)	1	1	30	1
JCB (Central Bank of London)	1	1	5	2
Master Card (MSRA America)	1	0	12	0
Visa (First USA)	0	0	0	3
<b>Totals</b>	<b>1,076</b>	<b>57</b>	<b>1,125</b>	<b>561</b>

LEGEND

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19001

FIGURE 20



20005

20000

FIGURE 21

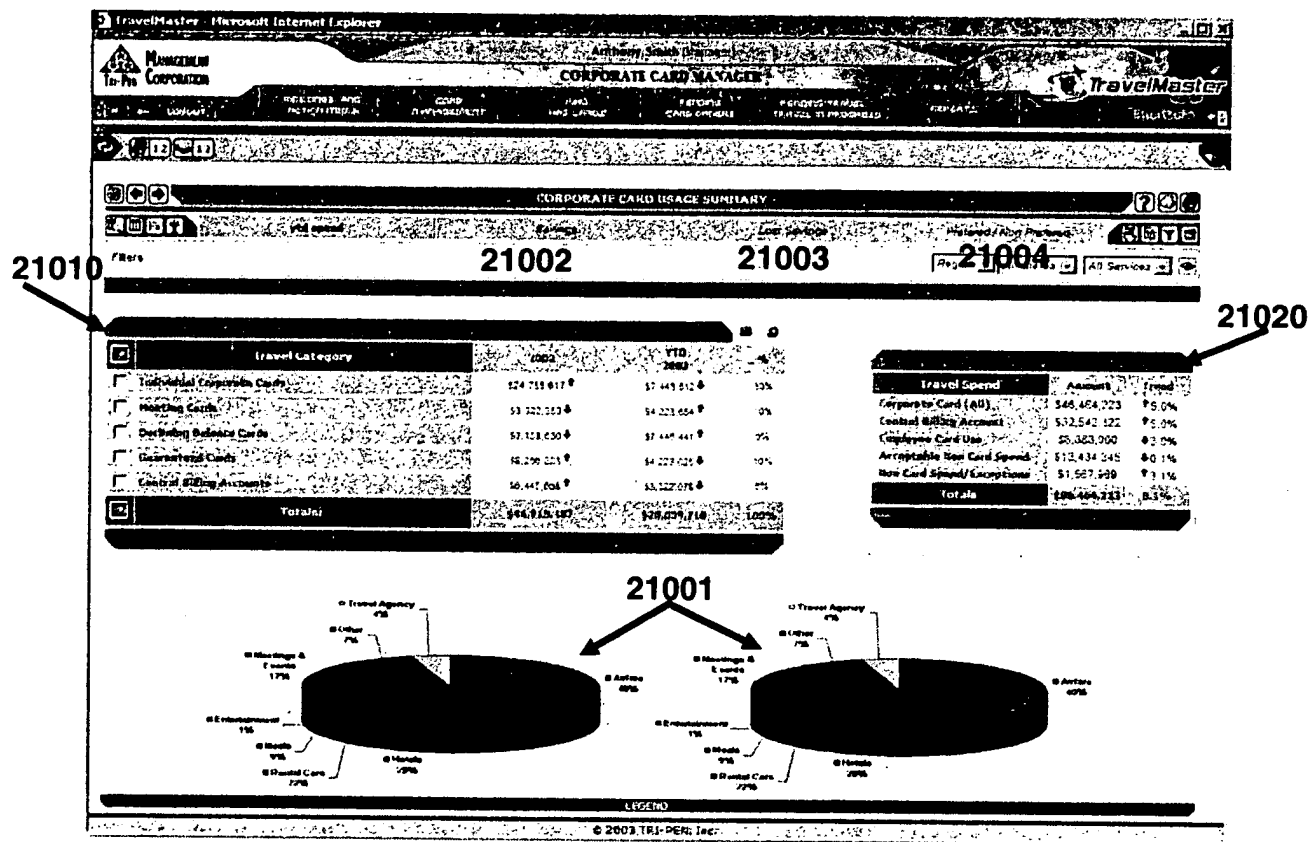


FIGURE 22

TravelMaster Microsoft Internet Explorer

MANAGEMENT CORPORATION

CORPORATE CARD MANAGER

TravelMaster

11 12

CORPORATE TRAVEL CARD SUMMARY

Card Summary

Card: 3723-334747-11230

Supplier: American Express

PC: 38946

Months in use: 12

Credit Limit: \$10,000.00

Primary Use: Travel

Terms: Net 30

Employee ID: TP-350030

Issue Date: Jan 03, 2003

Expiration Date: Feb 07, 2003

Card: 010033964

Issued to: Brenda Smith

Phone: (704) 222-3030

Division: Division 1A

Last balance: \$4,998.00

Liability: Personal or Corporate

10 Days  
PAID DUE!  
Please Pay Restaurant

CARD USAGE SUMMARY

Scheduled: 2003 YTD

Trans Date	Post Date	Type	Description	Transaction Number	Amount
Mar 28, 2004	Mar 28, 2004	Sale	ENTERPRISE RENT CAR (Travel)	242451P8H0V0V77	\$159.85
Mar 23, 2004	Mar 23, 2004	Sale	INTERCONTINENTAL HOTEL (Lodging)	342378P3F8A0N5J	\$231.00
Mar 23, 2004	Mar 23, 2004	Sale	LUXOR HOTEL CASINO (Lodging)	240147P403F9LKD8	\$146.51
Mar 22, 2004	Mar 22, 2004	Sale	US AIRWAYS	2403P3A434080F80	\$972.89
Mar 22, 2004	Mar 22, 2004	Payment	PAYMENT - TRAVEL	140010P30E330523	\$157.00
Mar 22, 2004	Mar 22, 2004	Sale	MANDALAY-BAY-BEACH BUFFET (Lodging)	240104P314014802	\$40.00
Mar 21, 2004	Mar 21, 2004	Sale	LUXOR ATTRACTIONS (Lodging)	240104P314014802	\$41.80
Mar 21, 2004	Mar 21, 2004	Sale	LUXOR BUFFET (Dining and Entertainment)	240104P314014802	\$21.48
					\$1,210.53

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My Computer

FIGURE 23

23001

TravelMaster Through Internet Explorer

CORPORATE CARD REPORTS

Summary Top Travel Agency Aging Analysis Cardmember Behavior

F Date Current Period All Card Companies All Card Types Case Range

CORPORATE CARD REPORTS / SUMMARY BY INDUSTRY


Report Name	Last Update	Reports	# Times Viewed
Corporate Card Summary	Jul 23, 2004	0	0
File Booking Based Exception Report	Jun 23, 2004	5	23
Emergency History Report	Jun 23, 2004	3	12
Industry Spending Summary	Jun 23, 2004	2	24
Industry Summary Report	Jun 23, 2004	4	7
Industry Spend Spending Summary Top 3	Jun 23, 2004	8	4
Industry Spend Spending Summary	Jun 23, 2004	4	5
Airline Card Report	Jun 23, 2004	4	5
Airline Spending Summary	Jun 23, 2004	19	10
Total Traffic Report by Segment	Jun 23, 2004	3	0
Air Booking Source Report	Jun 23, 2004	4	3
Cardmember Activity Report	Jun 23, 2004	4	7
Cardmember Listing	Jun 23, 2004	1	3
Car Rental Spending Summary	Jun 23, 2004	3	0
Lodging Spending Summary	Jun 23, 2004	3	0
Monthly Income Calculation Report	Jun 23, 2004	11	22
Corporate Expense Card Transaction Changes	Jun 23, 2004	5	14
Post-Approval Report	Jun 23, 2004	5	9
Post-Approval Spend Analysis Top 3 States	Jun 23, 2004	3	0
Spending Analysis Detail	Jun 23, 2004	1	12
Total Traffic Summary by Card	Jun 23, 2004	7	12
Totals			

LEGEND

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My Computer

FIGURE 24



TRAVELMASTER<sup>TM</sup>  
PATENT PENDING  
MANAGEMENT CONSOLE

LOGOUT | Victoria Wefford [administrator]

















**MENU**

- 1 CATEGORY MANAGEMENT
- 2 USER TYPES (ROLE)
- 3 USER MANAGEMENT
- 4 COMMUNITY MANAGEMENT

**3 USER MANAGEMENT - Users Listing**

[add user](#)

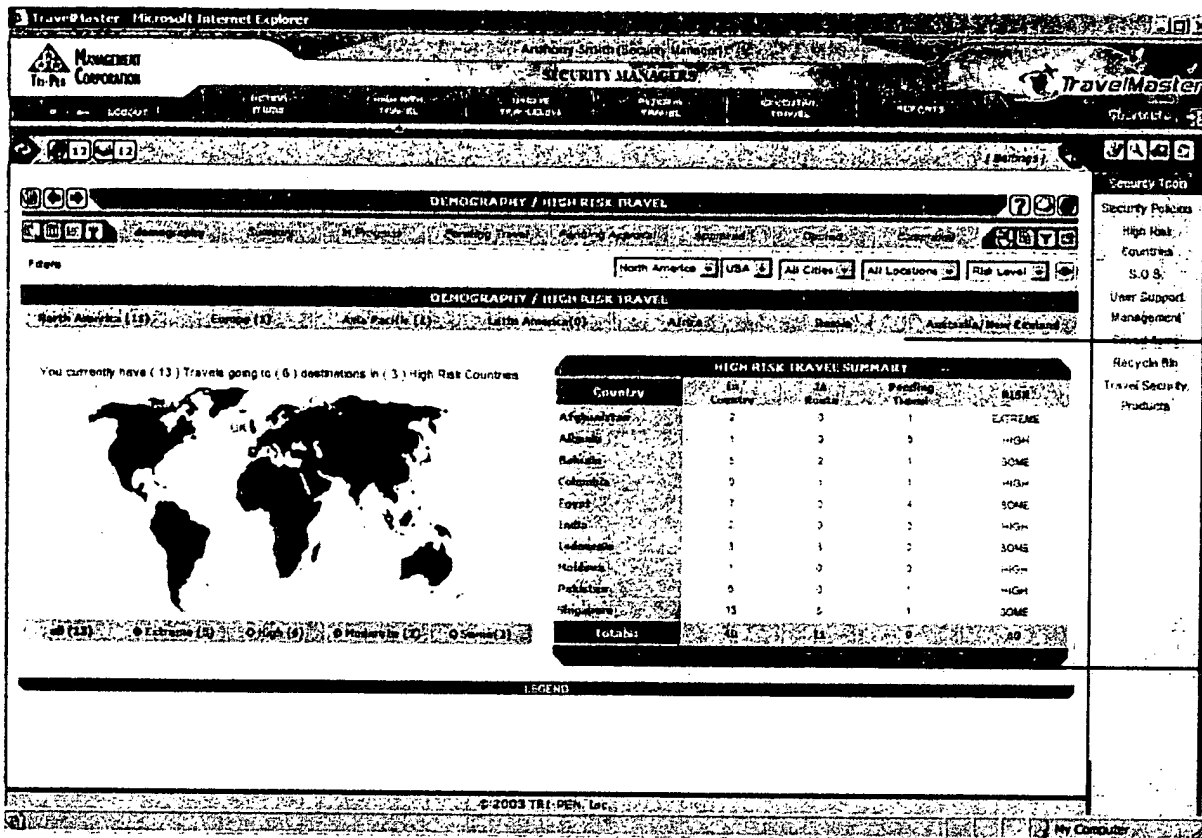
Filters:  User name:  User role:  Company:

Name	Roles	Last login	City/State	Phone	E-mail	Controls
User1	L3Comm Role1	June 23, 2004	New York, NY	(509) 555-1212	user1@user1.com	 
	Loral Role2					
	Tri-Pen Role3					
User2	L3Comm Role1	June 23, 2004	Memphis, TN	(509) 555-1212	user1@user1.com	 
	Loral Role2					
	Tri-Pen Role3					
User3	L3Comm Role1	June 23, 2004	Los Angeles, CA	(509) 555-1212	user1@user1.com	 
	Tri-Pen Role3					
User4	L3Comm Role1	June 23, 2004	New York, NY	(509) 555-1212	user1@user1.com	 
User5	Tri-Pen Role3	June 23, 2004	Memphis, TN	(509) 555-1212	user1@user1.com	 
User6	Tri-Pen Role3	June 23, 2004	Los Angeles, CA	(509) 555-1212	user1@user1.com	 
User1	Tri-Pen Role3	June 23, 2004	Memphis, TN	(509) 555-1212	user1@user1.com	 
User1	Tri-Pen Role3	June 23, 2004	Los Angeles, CA	(509) 555-1212	user1@user1.com	 

24001

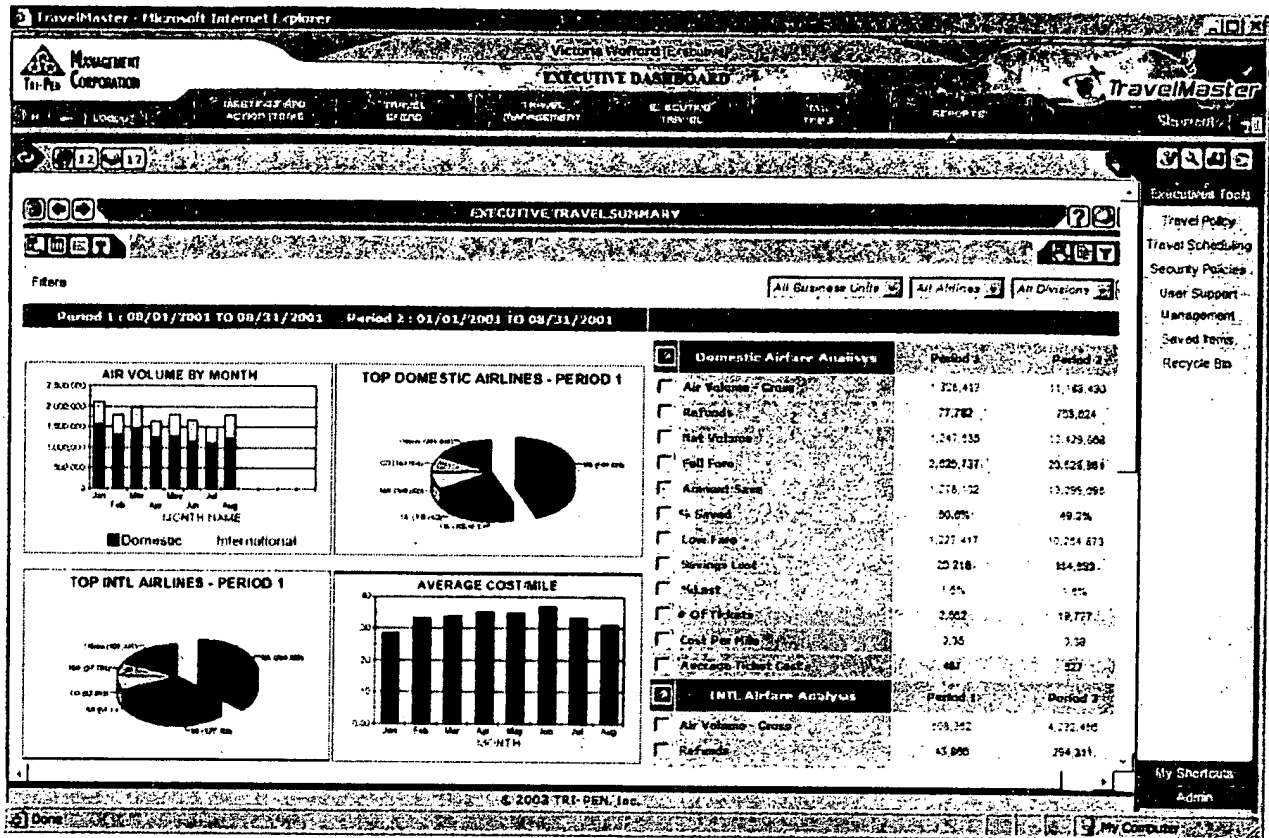


FIGURE 25



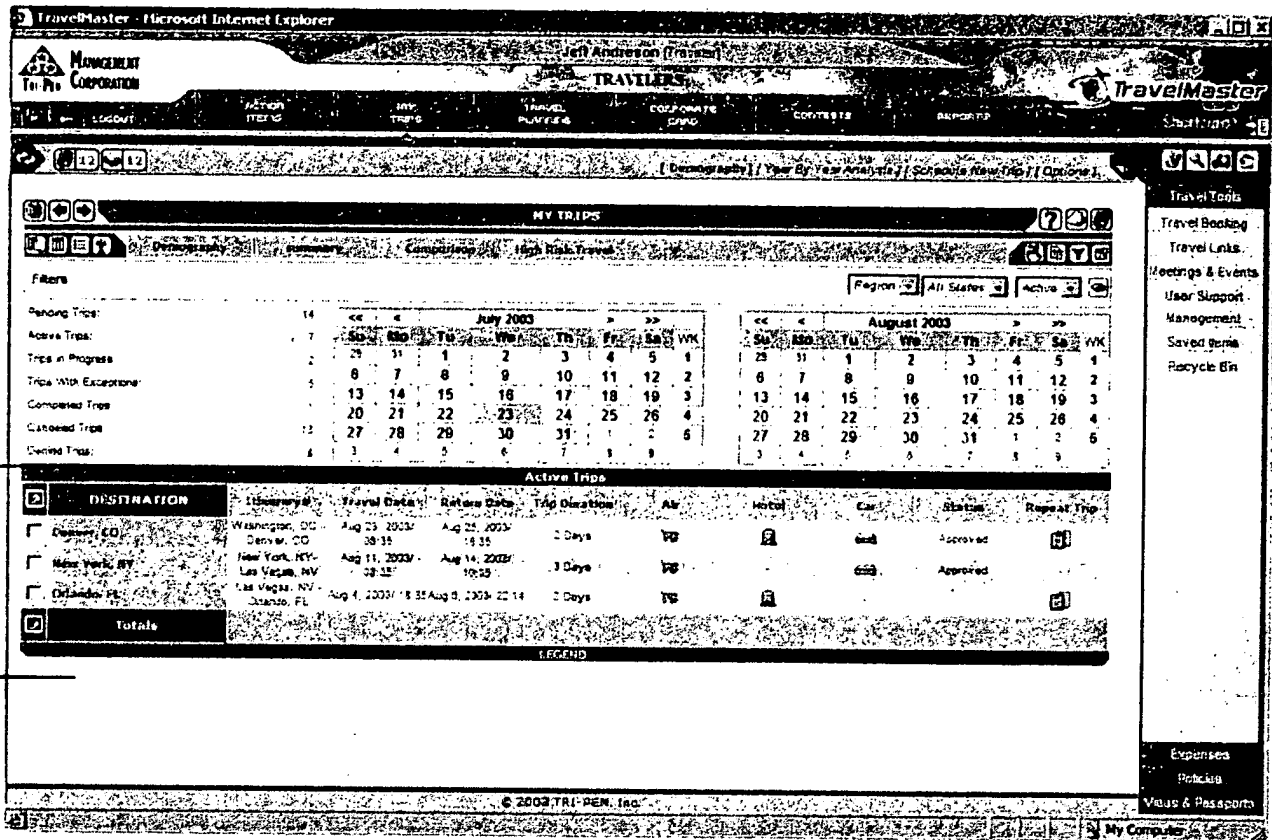
25001

FIGURE 26



26000

FIGURE 27



27001

FIGURE 28

**TravelCommander TS**

File Edit View Format Help

Victoria Wodfford - Online

Messenger Travel Counselors **Contact List**

**Tri-Pen Management Corporation**

Name	Phone	Location	Title
<b>▼ My Contacts - 4/12</b>			
John Smith	(509) 555-1212	Orlando USA	Marketing
Ashton R. Adams	(509) 555-1212	Denver USA	CTO
Tim Whitaker	(509) 555-1212	London UK	Sales
Christian Johansson	(509) 555-1212	London UK	Agent
Doyal Bryant	(509) 555-1212	London UK	Agent
<b>► My Agents - 9/22</b>			
<b>► Travel Policy / Approvals / Booking / Management - 9/22</b>			
<b>► Security Policy / Health / Safety - 9/22</b>			
<b>► Corporate Card Policy / Management - 9/22</b>			
<b>► Program &amp; Project Management / Budget Estimating - 12/34</b>			
<b>► Administrative Staff / Travel Assistants - 10/31</b>			
<b>► Visa's &amp; Passports - 7/21</b>			
<b>► Travel Suppliers / Support - 2/10</b>			
<b>► Expense Reporting - 4/9</b>			
<b>► RFP Management - 9/13</b>			

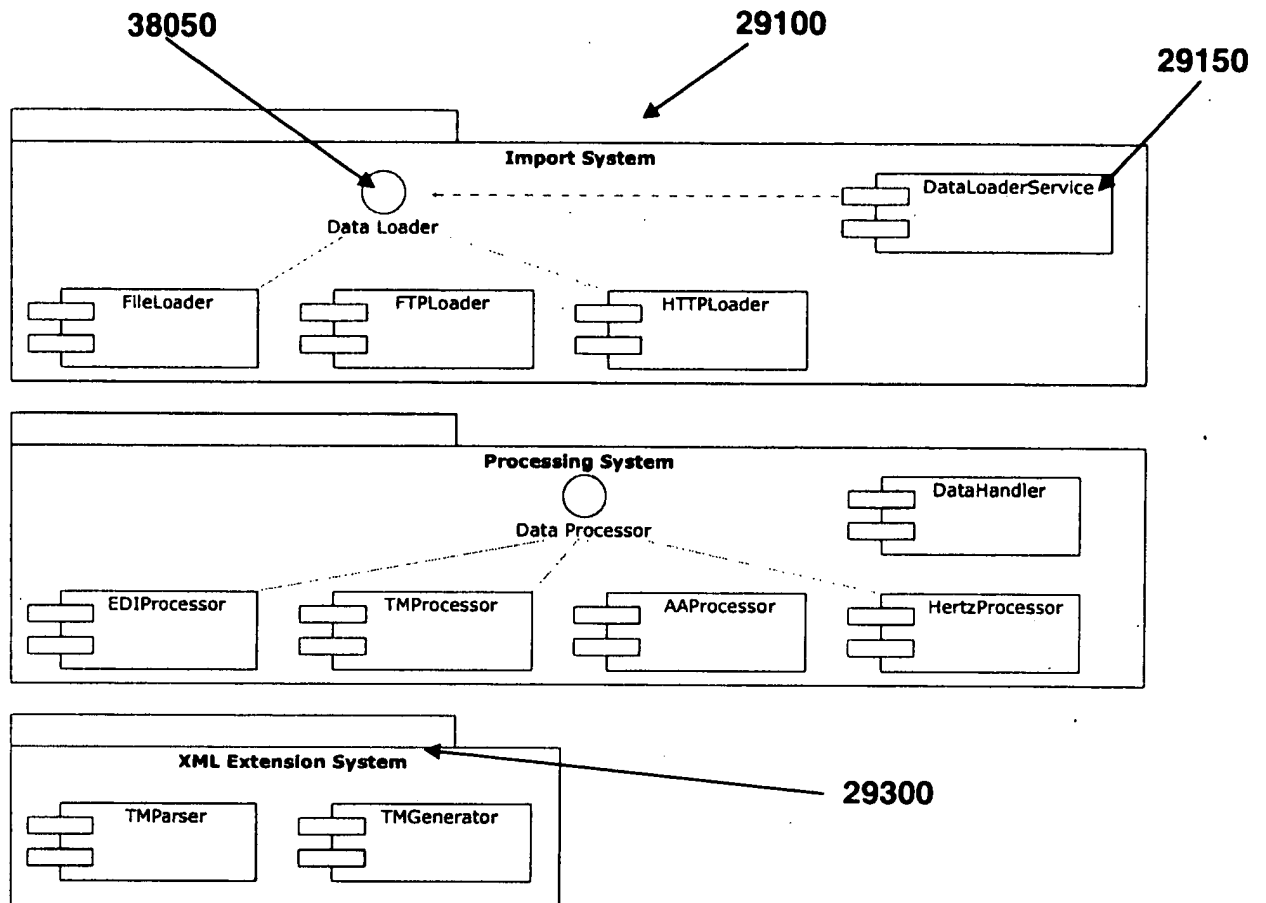
**Travel Policy Exceptions**

(2) (4) (0) (0) (0) (1) (239) (7)

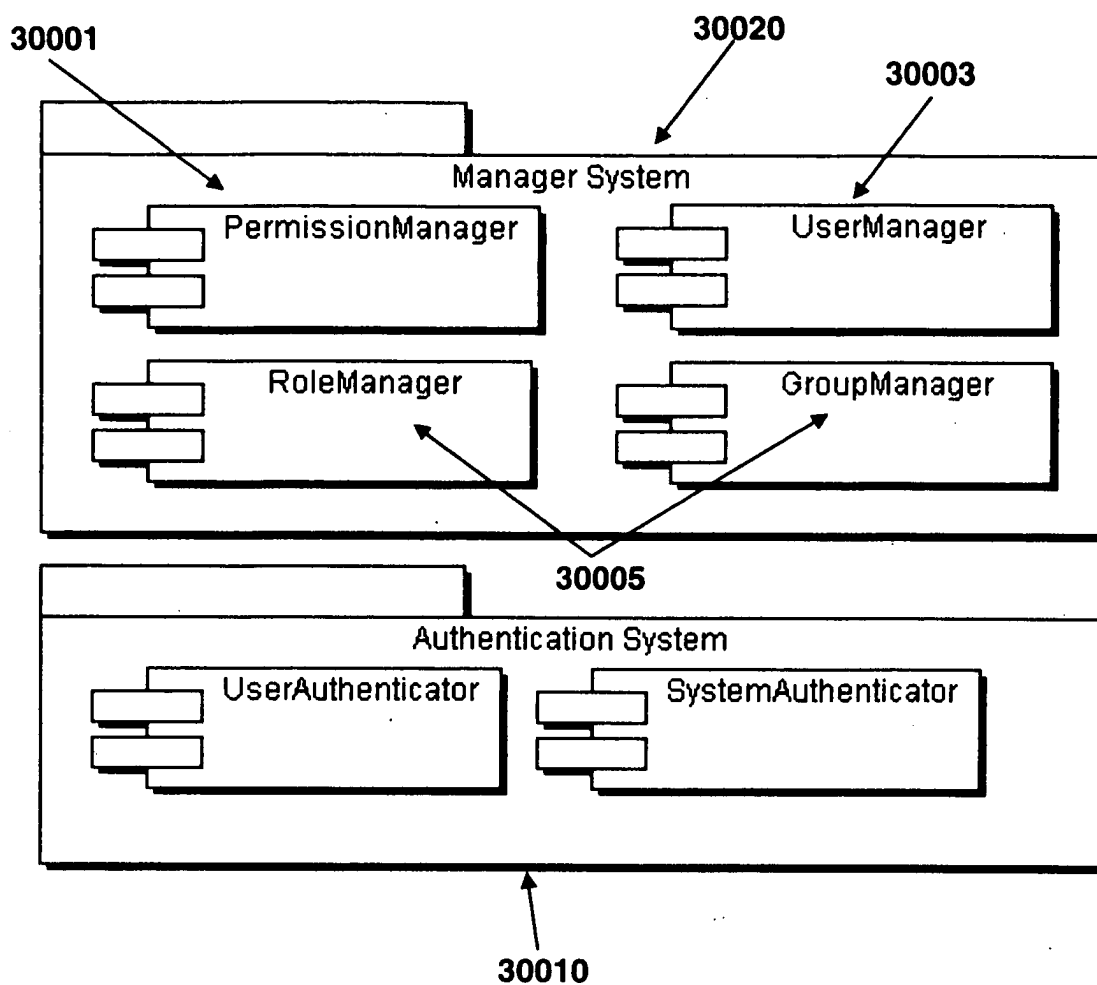
**System Notice**

28002

**Figure 29**



**Figure 30**



**Figure 31**

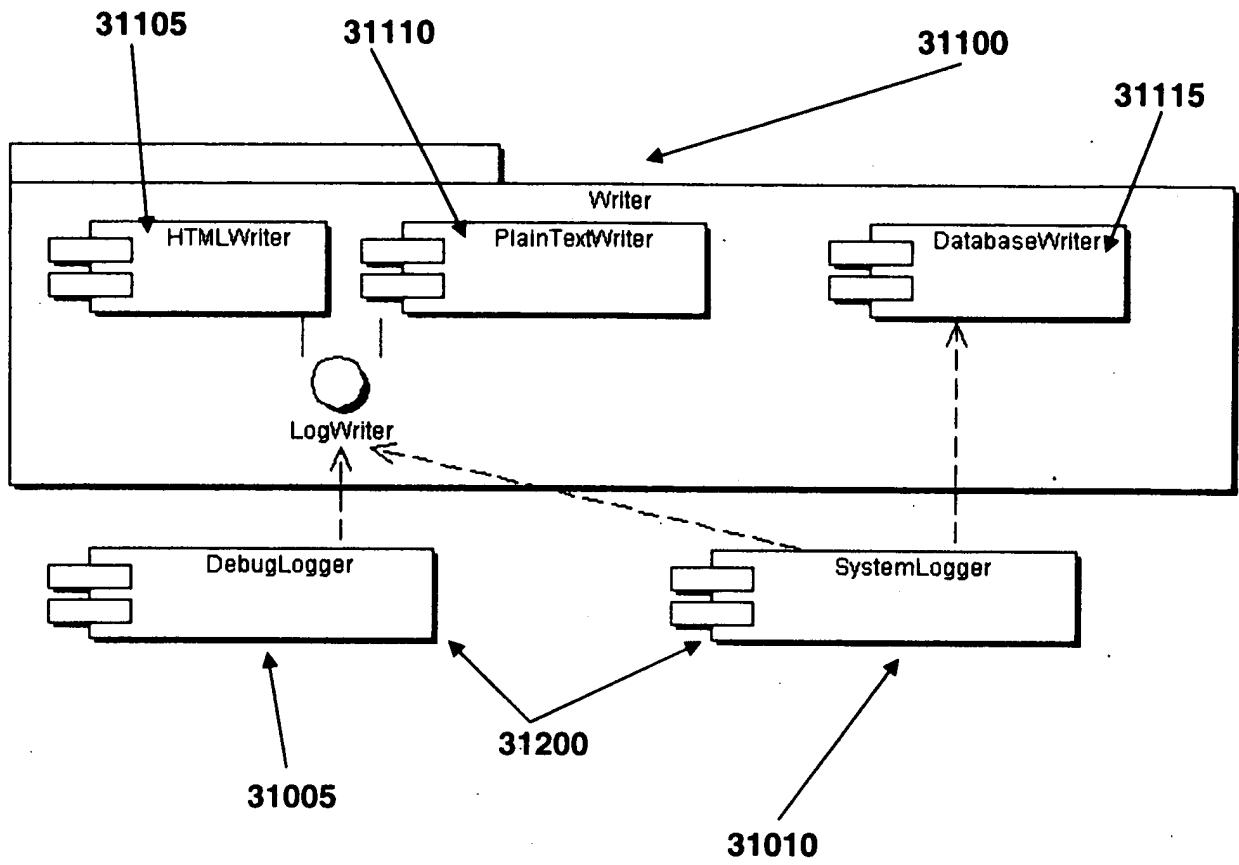
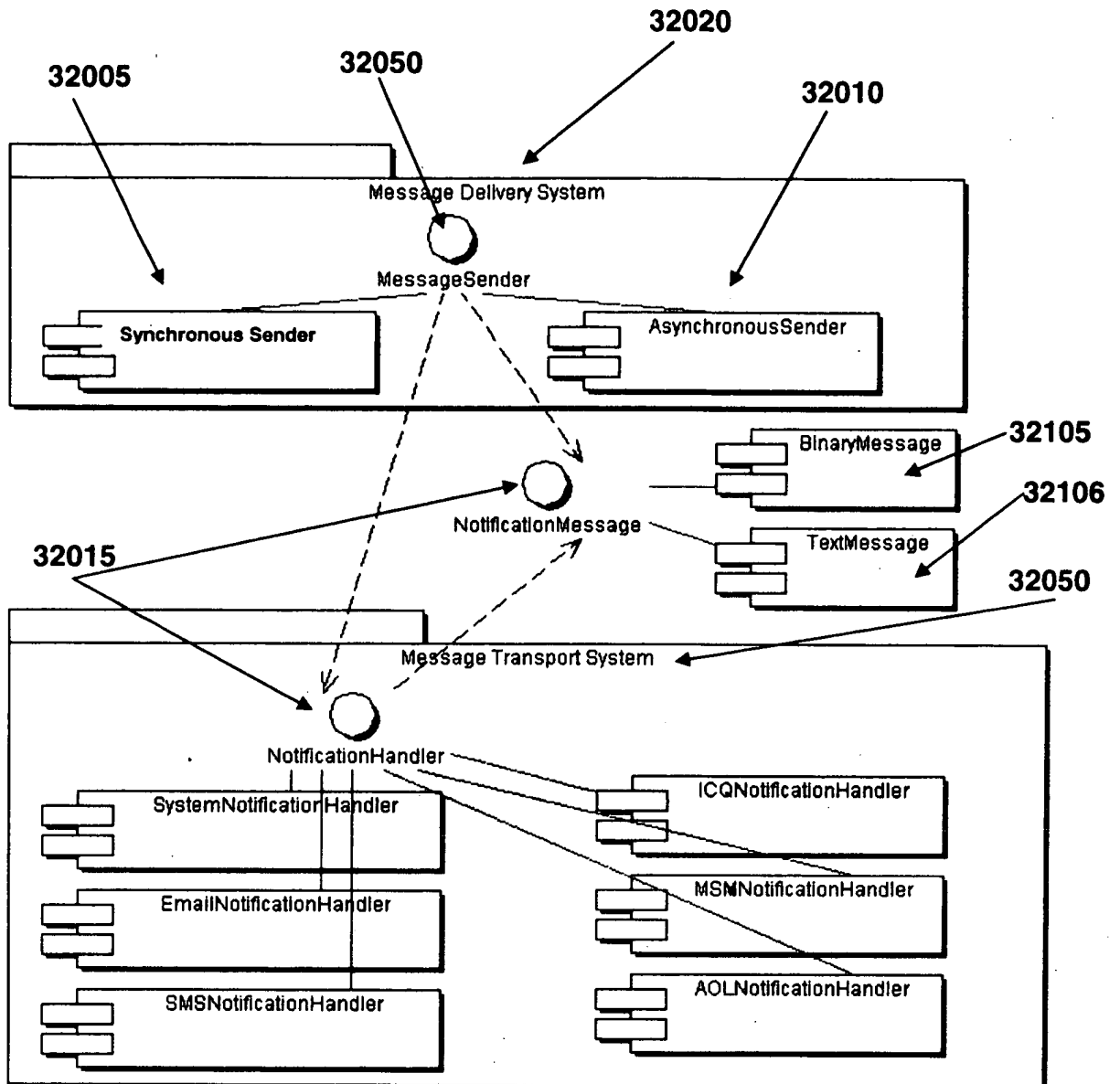


Figure 32





**Figure 33**

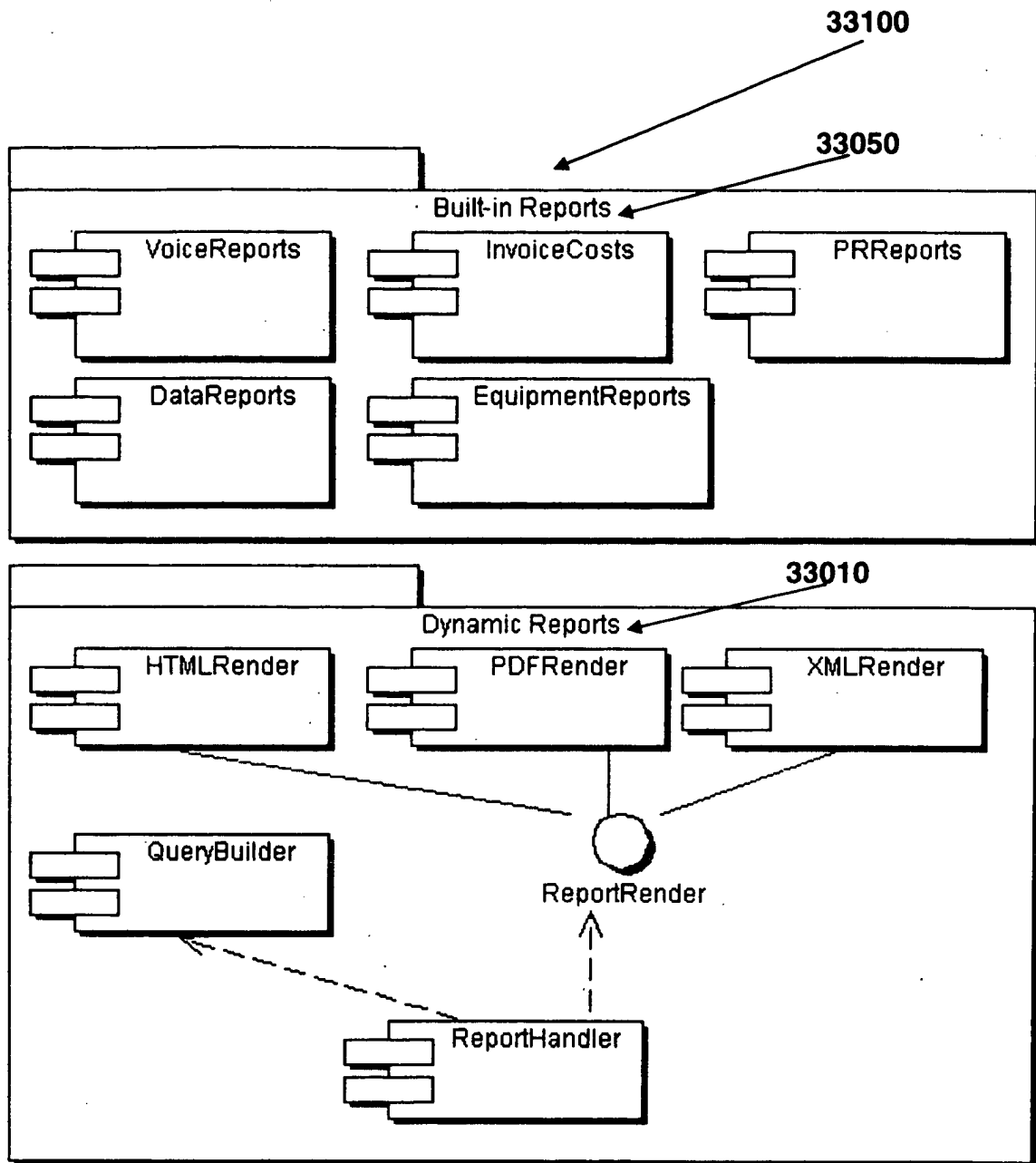


Figure 34

The screenshot displays the Tri-Pen Management Corporation website. The header features the company logo on the left, navigation links (Home, Our Clients, Estimated Rooms Nights, F.A.Q.) in the center, and a large image of a hotel on the right. A sidebar on the left contains a menu with options: Search RFP, RFP Reports, RFP Letter, Users Management, Load Save Specification, SOTA Fields, My Account, and Logout. The main content area is titled 'Hotel Information' and lists two hotel entries. Each entry includes a 'View' button, an 'Approve' button, a 'Re-negotiate' button, and a table of 'Average Rates'.

View	Approve	Re-negotiate	Average Rates
			27.9, 25.1, 28.7, 50.7
Status: SUBMITTED			
			27.9, 25.1, 25.7, 50.7
Status: SUBMITTED			

34100

Figure 35

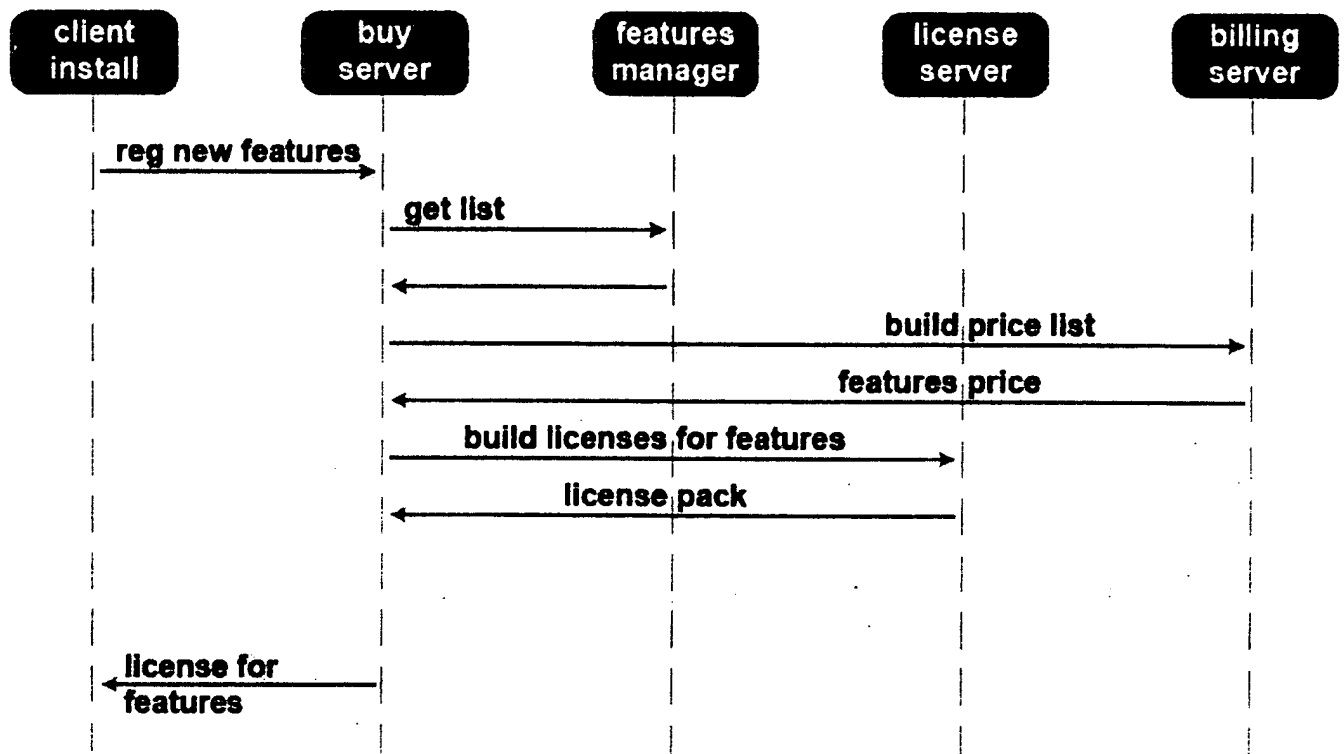


Figure 36

Database Diagram

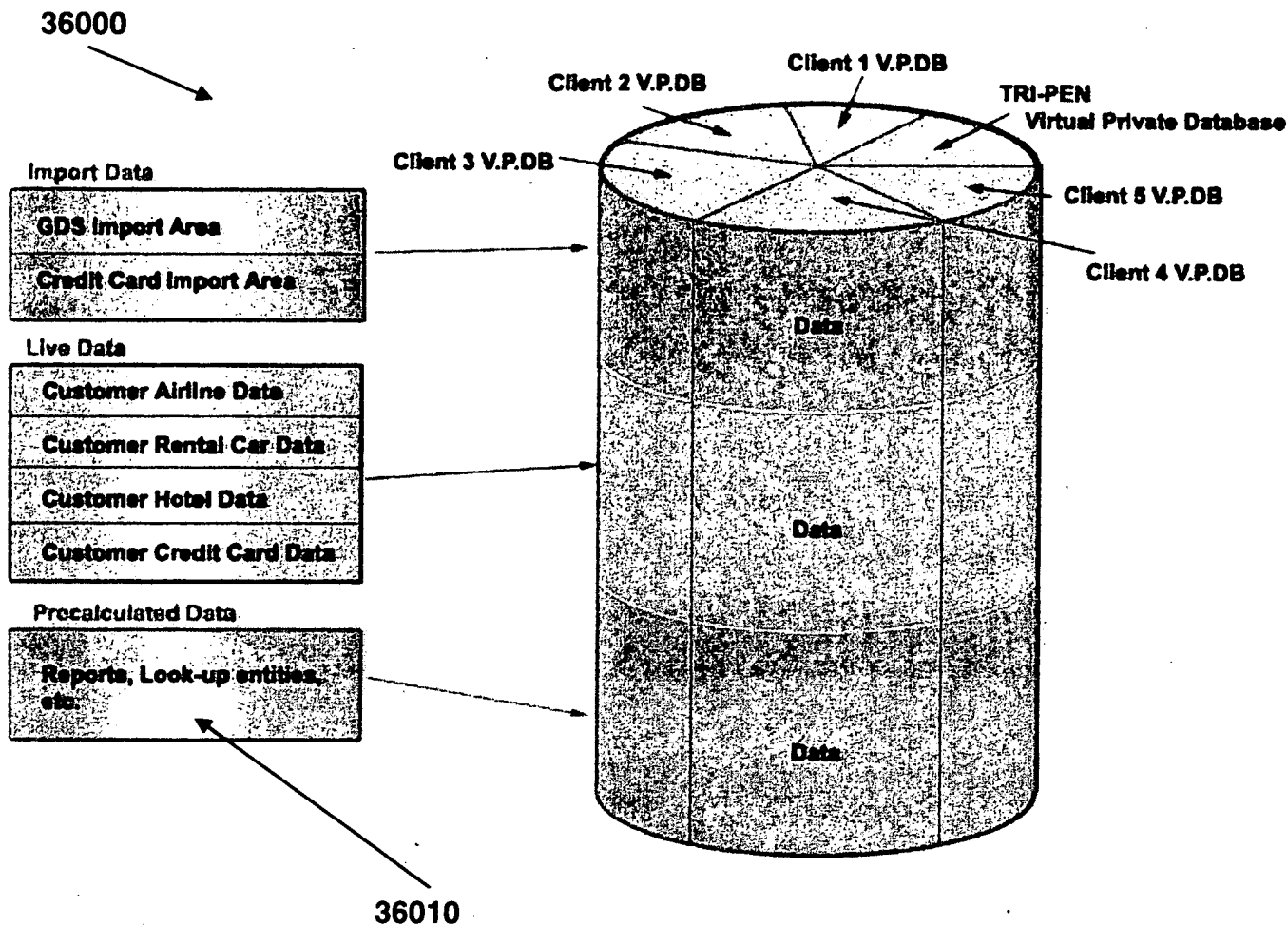


Figure 37

Pass Through of Direct Commands Within GDS

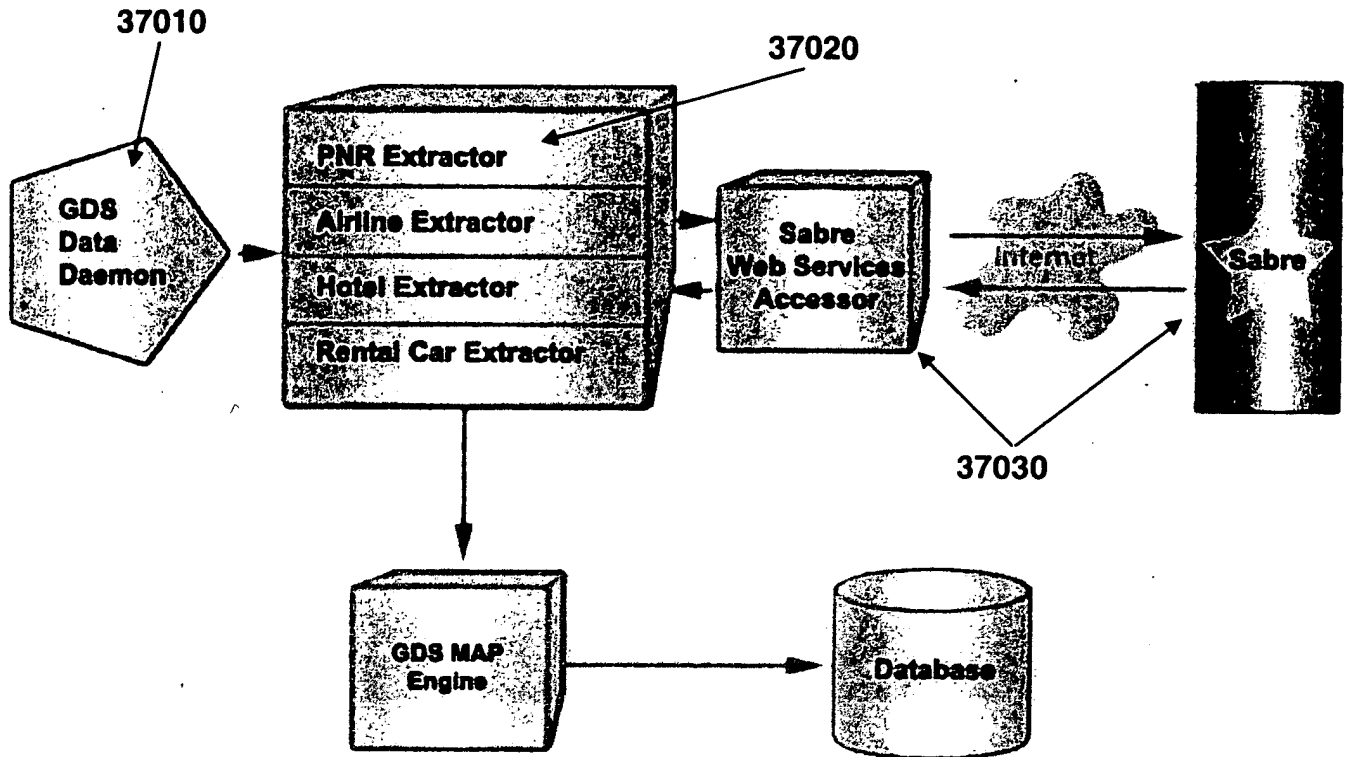


Figure 38

**Import System / Processing System / XML Extension System**

---

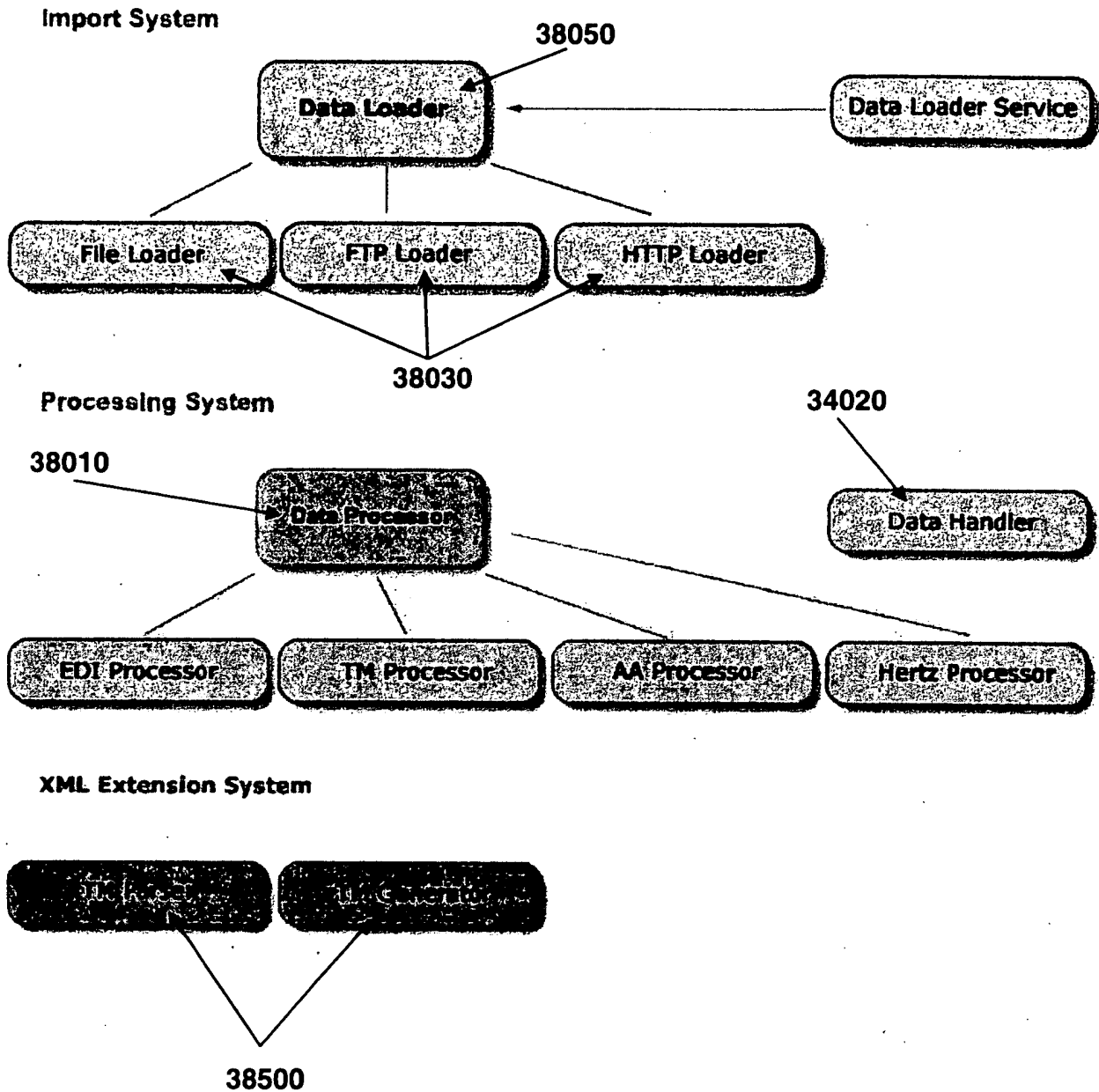


Figure 39

## Layout Manager

---

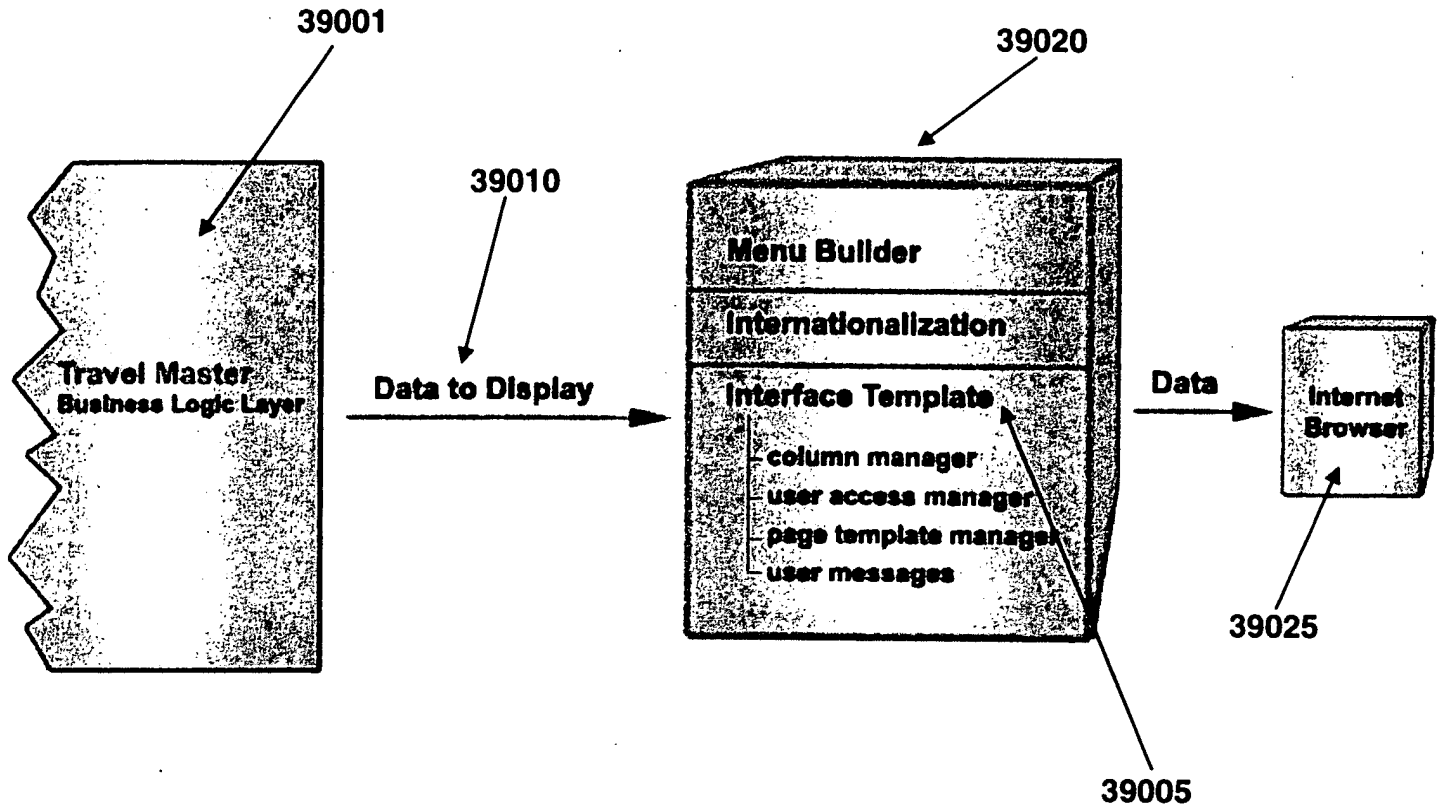


Figure 40

**License Manager**

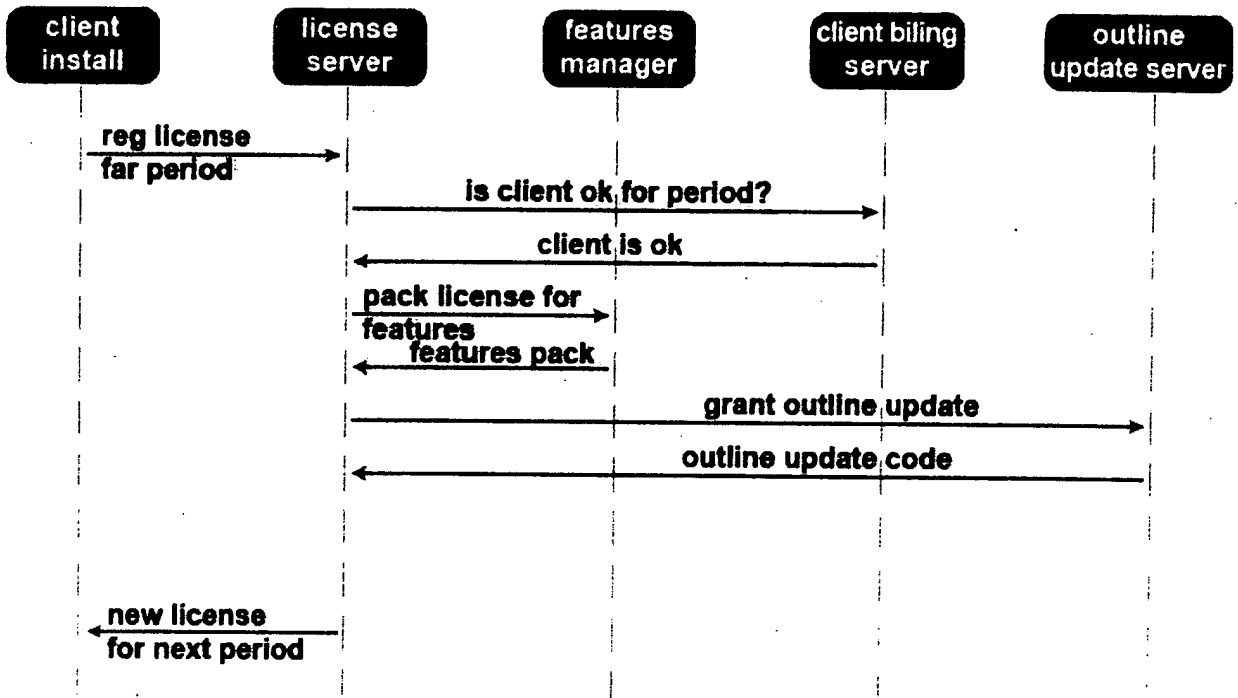
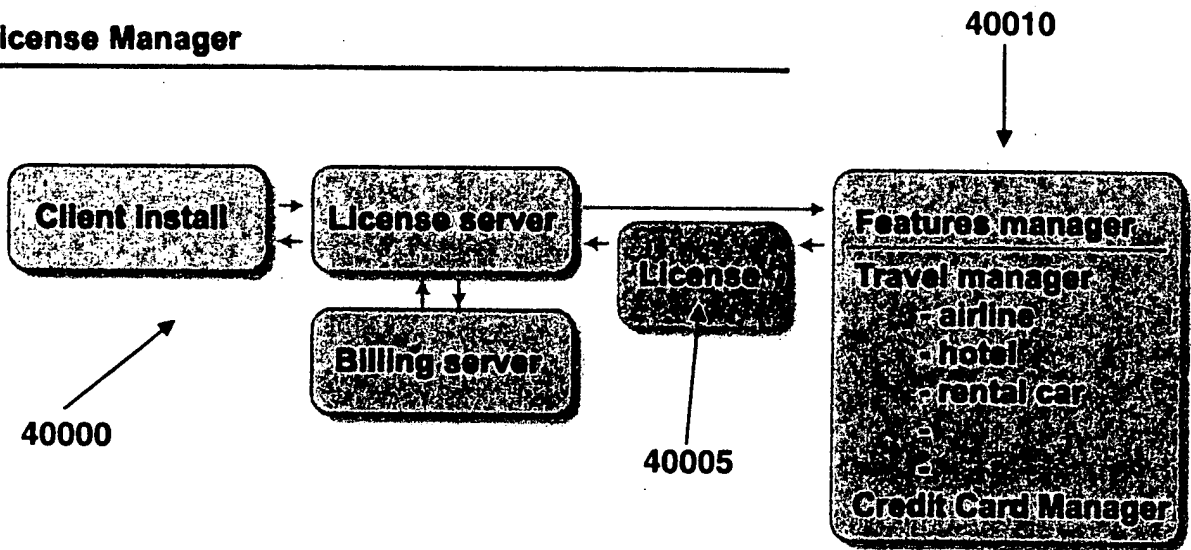
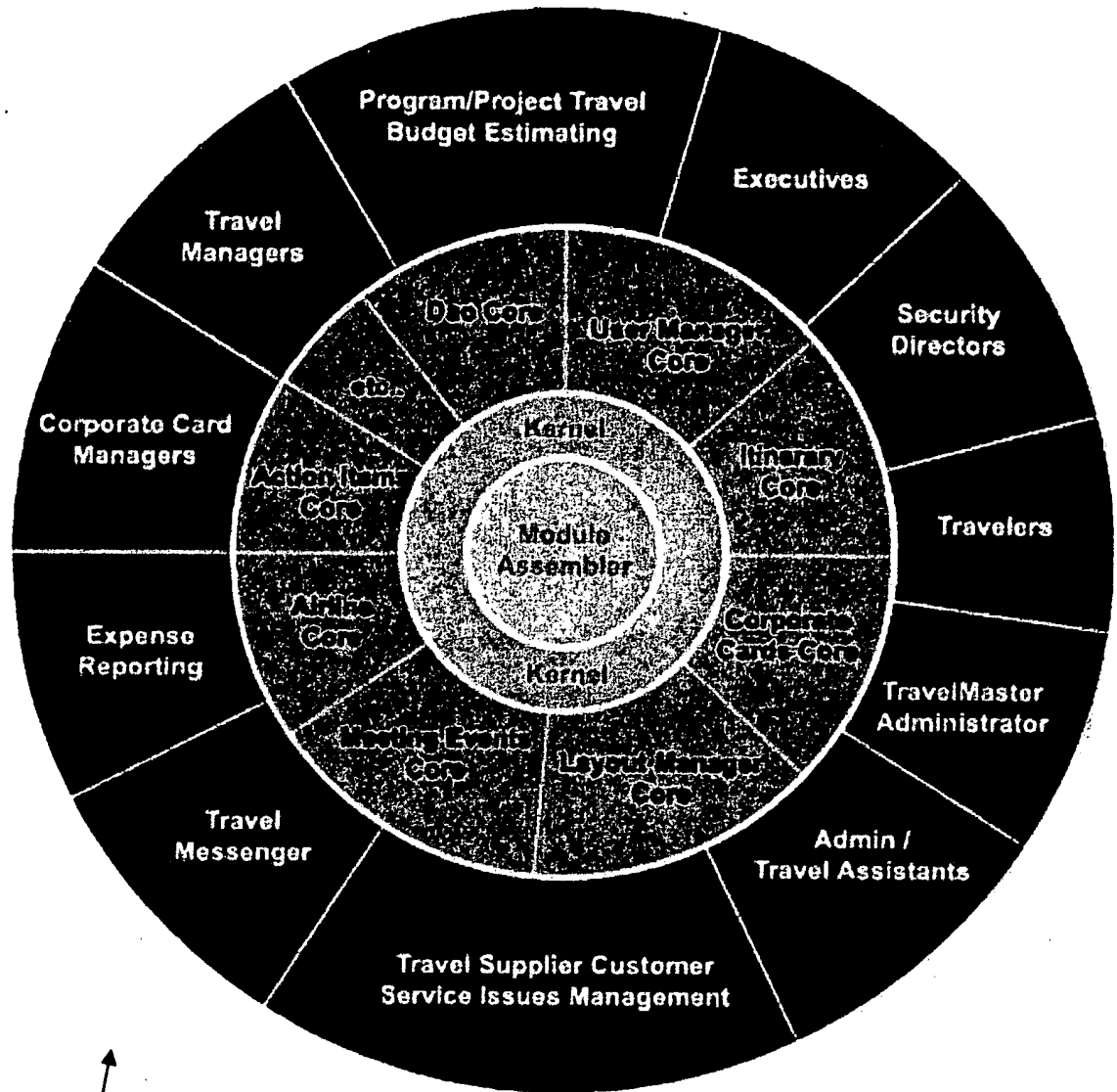




Figure 41

**Plug In Manager**

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41010

Figure 42

**Pre Travel Process**

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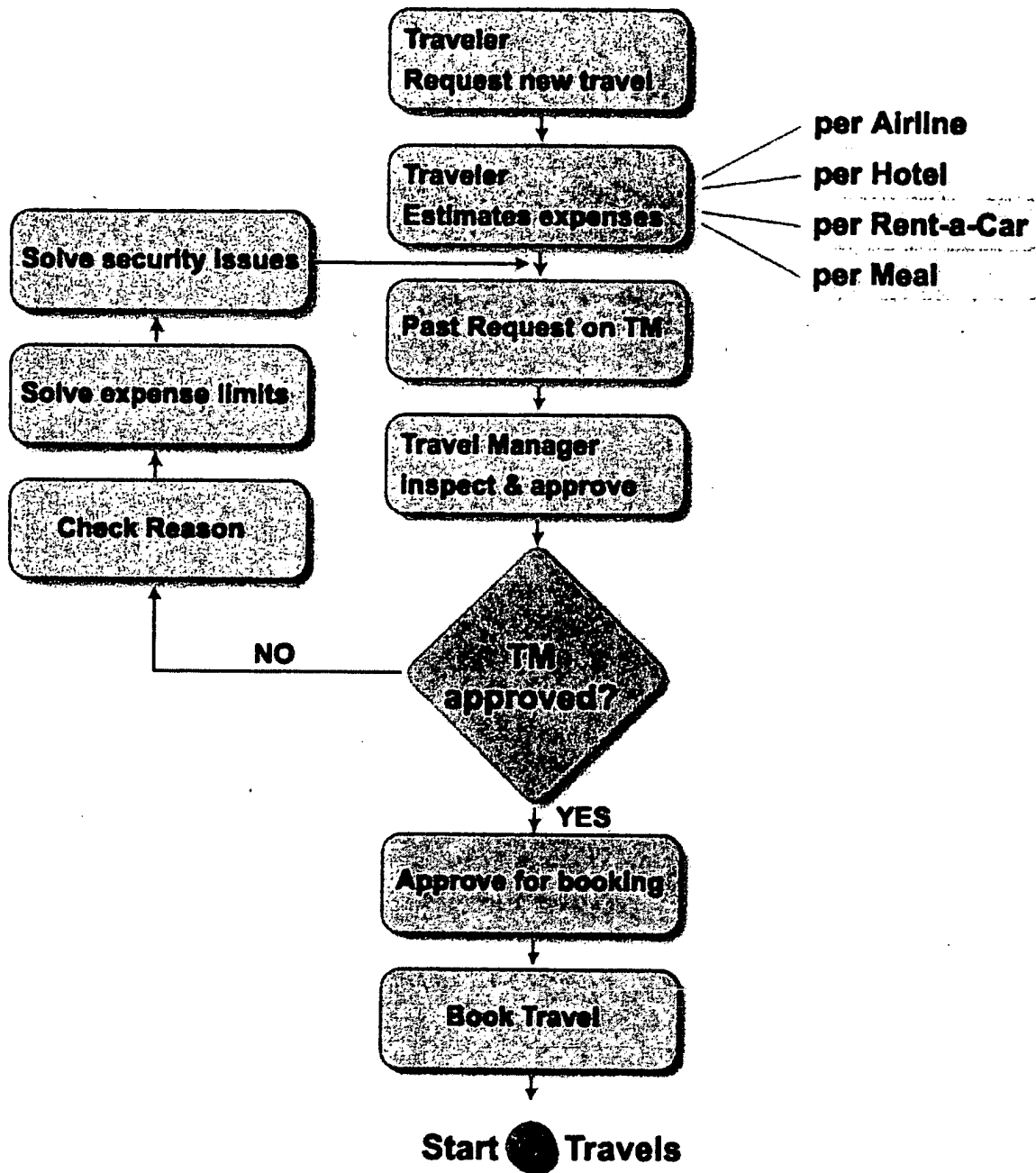
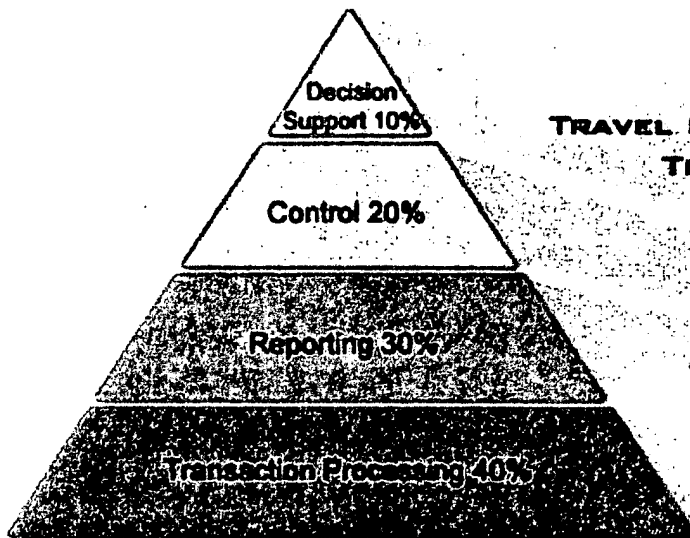


Figure 43

Total Travel Cost Management (TTCM) Cost Reduction

**CURRENT**

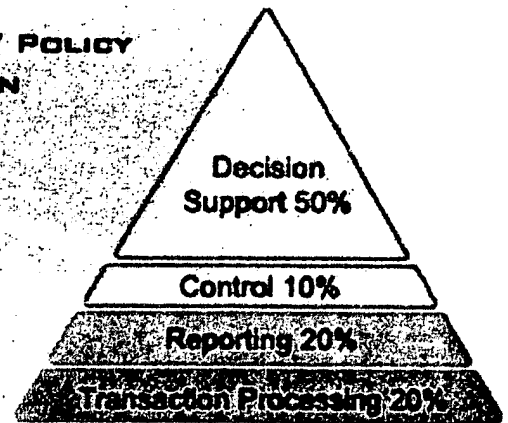


**TRAVEL MANAGEMENT / POLICY  
TRANSFORMATION**

**PROCESS  
REDESIGN**

**VALUE ADDED  
SYSTEMS  
Integrated  
Travel Data**

**POTENTIAL**



**COST REDUCTION**



**Figure 44**

**Web Based Portal Entry to the TravelMaster System**

